

including the COMPLETE **knight-kit** CATALOG PAGES
1 TO 77

ALLIED

ELECTRONICS FOR EVERYONE

1964

OUR 43rd YEAR
CATALOG 230B
INDEX: PAGE 437



ALLIED RADIO

100 N. WESTERN AVE. • CHICAGO 80, ILL. • HA 1-6800 (Area Code 312)

Satisfaction Guaranteed or Your Money Back



New!

GET THE NEWEST ADVANCES WITH

knight-kits®

World's Finest Electronic

Equipment in Economy Kit Form

... And So Easy to Assemble!



- Highly Sensitive Superheterodyne Receiver
- Dependable 2-Way Communications—Range Up to $\frac{3}{4}$ Mile
- Crystal-Controlled Transmit and Receive

each **\$19⁹⁵** \$5 monthly

C-555 SUPERHET WALKIE-TALKIE TRANSCEIVER KIT

Powerful . . . dependable . . . rugged . . . economical . . . Sensitive superhet circuit for greater distance and maximum reliability. And, no license or permit is needed! Features crystal-controlled transmit and receive sections; 100 mw input to final; up to a $\frac{3}{4}$ mile operating range; earphone jack; up to 50 hours of use on a single 9-v battery; 5-transistor and 1-diode circuit; silicon transistor in oscillator circuit; printed circuit board; 40" telescoping whip antenna; and 2" speaker; volume control; superheterodyne receiver design.

Coral red case is $7 \times 3\frac{1}{8} \times 2$ ". With all parts, instructions. Less battery, crystals, below. Optional carrying case and earphone below. Wt., 1 lb.

83 Y 822-D. \$5 Monthly.....19.95
 83 YY 034-D. Transmit Crystal. *Specify*
Channel 2-22. Wt., 2 oz......1.95
 83 YY 041-D. Receive Crystal. *Specify*
Channel 2-22. Wt., 2 oz......1.95
 83 Y 014-D. 9-V Battery. 4 oz.....35c
 83 Y 092-D. Carrying Case, 6 oz.....1.98
 83 Y 094-D. Earphone. 3 oz.....79c
 (Carrying Case and Earphone not shown.)
 SEE PAGE 76 FOR C555 COMPLETE OUTFITS.

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SHOWN
ACTUAL
SIZE



Greatest Walkie-Talkie Kit Value Ever!

knight-kit® C-100 Walkie-Talkie

NO LICENSE, EXAM, AGE LIMIT—ANYONE CAN USE IT



EASY TO BUILD

... AND IT'S

FUN TO USE

2 for
\$18.88

\$9.95
EACH

C-100 3-TRANSISTOR WALKIE-TALKIE TRANSCEIVER KIT

- On-the-Move Communications Up to 1/4-Mile
- Operates Up to 75 Hours on a Single Battery
- Small, Compact, Neatly Styled—Weighs 9 oz.
- Easy to Assemble—Anyone Can Build It.

The greatest value ever in a walkie-talkie kit! In a few fun-packed hours, you'll have this 3-transistor beauty assembled and ready for reliable, on-the-move communications up to 1/4 mile between units. Use it for camping, fishing, hunting, boating, hiking, picnics, outings, or just talking with your buddies around the house. And Mom and Dad will find many uses for a pair of these 2-way radios. Everyone can use them—absolutely no age restrictions or license requirements.

Flip the switch, then push the button to go on the air instantly—the built-in 2" speaker also serves as the microphone. Release button to listen over the super-regenerative type receiver. Crystal-controlled transmitter operates on channel 7. Operates up to 75 hours on a single battery. 40" antenna telescopes into case.

High-impact case, 5 5/8 x 2 7/8 x 1 3/4". With all parts, crystal, instructions. Less battery and optional carrying case (not illus.). 9 oz.

83 Y 804-D. 9.95
83 Y 821-D. PKG. OF TWO 18.88
83 Y 013-D. Carrying Case. 6 oz. 98¢
83 Y 002-D. 9-Volt Battery. 4 oz. 21¢



Shown Actual Size



101 Uses—Indoors and Outdoors

Complete C-100 Outfits on Page 51



knight-kit

STEREO HI-FI

All-Transistor Stereo

MADE POSSIBLE BY THE



NEW! KG-870 70-Watt Transistor Stereo Amplifier Kit

CHECK THESE DELUXE FEATURES

- ✓ Uses Four Silicon Pre-Driver Transistors That Provide High Audio Stability
- ✓ Output Circuitry Has Thermal Stability To Protect Transistors
- ✓ Virtually No Hum or Noise
- ✓ Absolutely No Microphonics
- ✓ Below 1% Intermodulation Distortion
- ✓ No Capacitors or Transformers in Output Stages for Flat Frequency Response
- ✓ Low Current Drain
- ✓ Modular Printed Circuitry
- ✓ Plug-In Transistor Sockets
- ✓ Variable Loudness Control
- ✓ Tape Monitor Input Switch
- ✓ Rumble and Scratch Filters
- ✓ Speaker Phasing Switch
- ✓ Individual Bass and Treble Controls for Each Channel

\$99⁹⁵

less case

- Uses 22 Transistors and 4 Silicon Diodes
- Instant Operation—Develops Virtually No Heat
- No Output Transformers—You Get Superb Bass
- Line Fuse and 2 Separate Power Supply Fuses
- Has Jack on Front Panel for Stereo Headphones

From the world's most experienced manufacturer of solid-state hi-fi components in kit form comes the KG-870—a new all-transistor stereo amplifier kit incorporating the latest developments in audio technology. Also offers spectacular Knight-Kit "PLUS" features for fast, easy assembly, including modular printed circuits and plug-in transistor sockets. Finest semiconductors guarantee unparalleled performance—and there's virtually no heat. Develops 70 watts of IHFM music power that is directly coupled to your speakers—no transformers or DC blocking capacitors. Reproduction is so pure that it must be heard to be believed. Other advantages: freedom from microphonics and mechanical noises, instant operation, low current drain; compact size, hardy construction. Offers striking Sierra gold and Charcoal styling. Size, 2 $\frac{3}{4}$ x13x11". Less case, below. For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

83 YX 603-D. \$5 Monthly.....	99.95
83 YU 548-D. KG-870 Factory Assembled. \$8 Monthly.....	149.95
83 YX 036-D. Brown Metal Case. Wt., 7 lbs.....	6.95
83 YX 035-D. Oiled Walnut Case. Wt., 9 lbs.....	12.95

KG-870 SPECIFICATIONS

Power Output: IHFM Music Power, 70 watts; 35 watts per channel. Sine Wave, 28 watts per channel.
Response: ± 1 db, 20-25,000 cps.
Distortion at Rated Power: Harmonic, 0.5%; IM, less than 1%.

Hum Level: Tuner, —80 db; Mag. Phono, —68 db; Tape Head, —60 db.

Channel Separation: Exceeds 30 db

Inputs: Tape Head (NAB); Mag. Phono (RIAA); Tuner; Aux 1; Aux 2.

All Specs Given at Rated Power Output.

Hi-Fi Components for the Finest in Sound

NEWEST ADVANCES IN SPACE-AGE AUDIO TECHNOLOGY



***knight-kit* KG-70 All-Transistor Stereo FM-AM Tuner Kit**

- 15 Transistors and 18 Diodes for Top Performance
- IF Strip and FM Front-End Pre-Wired and Aligned
- Automatic Stereo Multiplex Indicator Light
- Deluxe FM-AM Signal-Strength Tuning Meter
- 2 μ v FM Sensitivity for Best Stereo Reception

\$99⁹⁵
less case

Gives you breath-taking stereo multiplex FM, plus wideband FM and sensitive AM. Uses no tubes—you enjoy virtual elimination of hum and heat, freedom from microphonics, and fantastic durability. In addition, the KG-70's FM front-end and IF circuits are pre-wired and pre-aligned. This feature, plus advanced all-transistor design, gives you the highest level of performance attainable in a tuner kit—and enormously simplified assembly. Deluxe features include low-impedance outputs that allow long cable runs; effortless flywheel tuning; signal-strength type tuning meter; and tuned RF stages on both FM and AM. FM circuit also has 2 wideband IFs, a noise limiter, wideband ratio detector, AFC to "lock-in" stations, and an automatic gain control circuit. On AM, a 10-kc IF bandwidth offers top fidelity. Stereo tape recorder outputs. With 2 audio cables, wire, solder, easy-to-follow, step-by-step instructions. Edge-lighted dial. Size, 2 $\frac{3}{4}$ x11x9 $\frac{1}{4}$ ". Styling matches the KG-870 amplifier on the facing page. Less case, below. For 110-125 V., 60 cycle AC. Shpg. wt., 13 lbs.

83 YX 704-D. \$5 Monthly.....	99.95
83 YU 515-D. KG-70 Factory Assembled. \$8 Monthly.....	149.95
83 YX 033-D. Brown Metal Case for KG-70. 6 lbs.....	4.95
83 YX 032-D. Oiled Walnut Wood Case for KG-70. 8 lbs.....	9.95

SPECIFICATIONS

FM SECTION. Usable IHFM Sensitivity: 2 μ v for 30 db quieting. Response: $\pm$ 1 db, 20-20,000 cps. Bandwidth: 200 kc. Hum and Noise: 60 db below 1 v. Channel Separation: 30 db. Antenna: External 300-ohm twin-line folded dipole. **AM SECTION** Sensitivity: 3 μ v for 10 db signal/noise ratio. IF Bandwidth: 10 kc. Hum and Noise: 60 db below 1 v. Antenna: Ferrite loopstick.



IF Strip Is Factory Wired and Accurately Aligned



Critical FM Front-End Is Also Wired and Aligned



Light Flashes On When You're Tuned to an FM "Sterecast"



Tuning Meter Assures Peak FM and AM Reception



knight-kit

Popular Model C-22 5-Watt CB Transceiver Kit



Universal—for 110-
125 v. AC or 12 v. DC.

\$69⁹⁵ \$5
monthly



IN YOUR AUTO . . . use the C-22 wherever you drive. Communicate with your home, office or shop; even talk to other mobile units.



IN YOUR BOAT . . . use the C-22 to keep in touch, even summon aid in emergencies. Wide operating range is even greater over water.

PLUS MANY OTHER USES!

COMPARE ALL OF THESE OUTSTANDING FEATURES

- ✓ Five Crystal-Controlled Transmit and Receive Channels
- ✓ Receiver Also Tunes 23 Channels
- ✓ Operating Range Up To 20 Miles
- ✓ Efficient, Full 5-Watt Transmitter
- ✓ 100% Modulation; Pi-Net Output
- ✓ Sensitive Superheterodyne Receiver
- ✓ Press-to-Talk Ceramic Microphone
- ✓ Adjustable Squelch Control
- ✓ Automatic Noise Limiter
- ✓ Universal 115 VAC/12 VDC Supply

KNIGHT-KIT MODEL C-22 5-WATT CITIZENS BAND TRANSCEIVER KIT

UNIVERSAL C-22 KIT. Designed in the Knight-Kit tradition of craftsmanship and dependability, the C-22 is jam-packed with important features. Offers top-notch performance as either a fixed or a mobile station. Compact size, easy accessibility of controls and crystals, handy press-to-talk operation, and self-contained power supply for 115 VAC/12 VDC combine to make it a superb unit for any CB application.

Employs crystal-controlled transmit-receive sections that operate on any 5 switch-selected channels (see crystals, below)—or, at the flick of a switch, receiver may be manually tuned through all 22 channels. Transmitter runs fully modulated 5 watts input, with an adjustable pi-network output circuit for positive impedance match with any CB antenna. Has front-panel RF indicator and switchable Automatic Noise Limiter.

Superhet receiver provides excellent sensitivity and selectivity figures. Efficient 2-stage IF provides high selectivity and image rejection. Also has variable squelch, series gate noise limiter, smooth-tuning planetary drive mechanism, plus 2½-watt audio section and a 3" speaker for loud, clear reception. Edge-lit panel illuminates controls. 54-mc harmonic trap reduces TV interference. 6 tubes and 5 diodes for top performance. Size, 4½x10½x10½". With wire, solder, press-to-talk ceramic mike, instructions. Less crystals, below. Fused power supply for 110-125 v., 60 cycle AC or 12 v. DC. Shpg. wt., 19 lbs.

83 YX 802-D. \$5 Monthly.....69.95

STANDARD C-22 KIT. Above, but for 110-125 v., 60 cycle AC only. Shpg. wt., 18 lbs.

83 YX 801-D. \$5 Monthly.....64.95

C-22 ACCESSORIES

83 YX 009-D. Mobile Mounting Bracket. 6 lbs.....4.95

83 YY 046-D. Transmitting Crystals. *Specify Channel 1-22* (C-22 accommodates 5). 3 oz.....EACH 2.50

83 YY 045-D. Receiving Crystals. *Specify Channel 1-22* (C-22 accommodates up to 5). 3 oz.....EACH 2.50

83 Y 042-D. Civil Air Patrol Receiving Crystal. Shpg. wt., 3 oz.....EACH 2.50

83 Y 043-D. Civil Air Patrol Transmitting Crystal. Shpg. wt., 3 oz.....EACH 2.50

C-22 SPECIFICATIONS

RECEIVER

Sensitivity: 1 microvolt for 10 db signal-to-noise ratio.

Selectivity: 6 db down at 6.5 kc.

Adjacent Channel Rejection: 25 db.

Audio Output: 2½ watts into built-in 3" speaker.

TRANSMITTER

RF Output Power: 3 watts.

Modulation: Amplitude-modulation plate and screen, automatically limited to less than 100%.

Output Impedance: Pi-network, matches all CB antennas.

TVI Suppression: 54 mc tunable harmonic trap.

OVERALL

Controls: On-Off/Vol.; Adjustable Squelch; Crystal-Tune/Channel Selector; Receiver Tuning; Noise Limiter Off/On; Press-to-Talk Transmitt Switch on Microphone.

Tube Complement: 1-6CX8; 1-6EA8; 1-12AX7; 1-12AQ5; 2-6HR6; 3 silicon diodes, 2 silicon rectifiers.

Power Requirements: 110-125 v., 60 cycle AC, 50 watts or 12.6 v. DC at 3.8 amps.

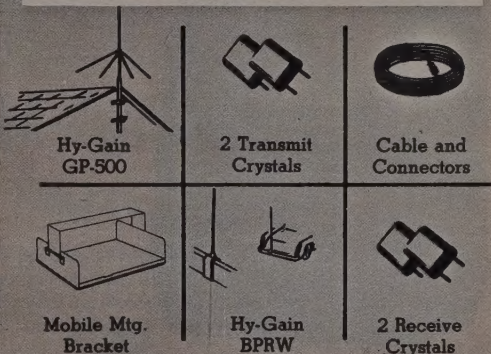
SAVE \$8.70 ON THIS 2-STATION BASE-TO-MOBILE CB OUTFIT



Complete
2-Station
CB Outfit

\$169⁹⁵

\$9 monthly



C-22 BASE-TO-MOBILE OUTFIT

Save \$8.70. Complete Citizens Radio outfit in fun-to-build kit form. Provides you with dependable communication between home, office, car, boat, etc., at distances of up to 20 miles. **Includes:** 2 Knight-Kit C-22 Citizens Band Transceiver Kits (1 Standard and 1 Universal); Mobile Mtg. Bracket; Choice of any 2 Transmit and 2 Receive Crystals; Hy-Gain Model BPRW Mobile Whip Antenna with Bumper Mount; Hy-Gain Model GP-500 Ground-Plane Antenna; 65-Ft. RG-58/U Coaxial Cable; all necessary connectors; plus Allied's new book, "Understanding and Using Citizens Band Radio," 70 lbs. Shipped express.

23 YX 700-5D. *Specify Channel 1-22....* 169.95



knight-kit
CITIZENS BAND

1-Watt Walkie-Talkie Kit

Keeps You in Touch . . . Via Citizens Band



DELUXE KG-4000A 1-WATT WALKIE-TALKIE KIT—OUR BEST!

- 10 Times the Power of Most Walkie-Talkies
- Crystal-Controlled Transmit/Receive Channels
- Superhet Receiver has RF Stage, Two IF Stages, Squelch, AVC and Noise Limiter

Full 1-Watt RF Input **\$59⁹⁵** \$5 monthly

Professional-quality crystal-controlled citizens band transceiver kit—extremely compact for portability. Perfect for industrial use, ship-to-shore contact, hunting, fishing, etc. Full 1-watt RF input for up to 5-mile range. Superhet receiver offers greater sensitivity and longer range than most other walkie-talkies. Local-Distance switch permits close-in operation without overload distortion. Noise-limiter improves reception, and squelch circuit keeps unit quiet between messages—also reduces battery-drain. Other features: press-to-talk operation; RF-output indicator; external antenna jack for fixed or mobile use; plug-in crystal sockets; output for earphone or external speaker. Less batteries and crystals (1 transmit; 1 receive), below. With FCC application, tan styrene case, and strap. 10 $\frac{3}{8}$ x3 $\frac{3}{8}$ x4 $\frac{1}{2}$ ". Wt., 6 lbs.

83 YX 808D. \$5 Monthly 59.95

83 YX 500D. Factory Assembled . . . EACH 89.95

83 Y 012D. "C" Batteries. Uses 8, 2 oz. . . EA. 14¢

83 Y 011D. Rechargeable Battery and Charger Kit. Heavy-duty nickel-cadmium cell replaces the 8 "C" cells. For 110-125 v, 60 cycle AC. 1 lb. 19.95

83 Y 551D. Factory Assembled . . . EACH 29.95

83 Y 047D. 12 VDC Adapter/Charger Cable. Fits into car cigarette lighter. With cable. 6 oz. . . 1.00

83 YY 041D. Receiving Crystals. Channels 1 to 22—specify. Shpg. wt., 3 oz. EACH 1.95

83 YY 034D. Transmit Crystals. Channels 1 to 22—specify. Shpg. wt., 3 oz. EACH 1.95

See Page 77 For KG-4000A Outfits

SPECIFICATIONS

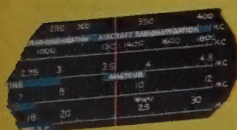
Receiver Section. Crystal-controlled superheterodyne. Sensitivity: better than 1 μ v for 10 db signal-to-noise ratio. Adjacent Channel: 30 db down. Audio Output: 750 mw class B push-pull. External speaker/earphone provision. **Transmitter Section.** Crystal-controlled (any CB channel, 1 through 22). RF Input: 1 watt. RF Output: 0.5 watt. **Controls** On/off/volume; squelch; distance-local; press-to-talk button. **Power Supply.** Operates up to 50 hours on 8 size "C" flashlight cells, or on rechargeable nickel-cadmium cell (optional); provision for external 12 VDC source. **Antenna.** 52" whip. Provision for external antenna.



A World of Thrilling Shortwave Adventures!



OUTSTANDING FEATURES



SLIDE RULE DIAL

7 1/4" long; illuminated for easy logging and quick station selection



ILLUMINATED "S" METER

Indicates station strength and correct tuning for best signal



SENSITIVITY CONTROL

Adjusts for optimum reception when listening to voice or code

knight-kit Star Roamer™ 5-Band Shortwave Receiver Kit

- 5 Bandswitched Ranges: 200-400 kc; 550 kc-30 mc
- Superhet Circuit; Controlled Regenerative IF Stage
- Electrical Bandspread for Razor-Sharp Tuning
- Has AVC; ANL; Illuminated "S" Meter; 4" Speaker

\$39.95

\$5 monthly

Travel the globe from your armchair—hear history as it is made—on the shortwave bands. You'll hear all the exciting voices of the world, plus Amateurs, and press stations. The Star Roamer also puts at your fingertip command the marine and aeronautical bands, with calls from ships at sea and planes aloft. You listen to beacons, up-to-the-minute weathercasts, and distress calls. In addition, there are your favorite AM radio programs on the standard broadcast band. Covers a wide range; 200 to 400 kc and 550 kc to 30 mc inclusive in 5 bandswitched ranges. Electrical bandspread control separates stations and gives you really precise tuning. IF sensitivity control improves selectivity and develops beat note for code reception. ANL stops impulse noise; AVC reduces fading and blasting. Has "S" meter; 4" speaker; antenna trimmer; headphone jack. Charcoal gray and aluminum. Size, 5 1/2 x 12 1/4 x 8". Includes all parts, wire, solder and easy-to-follow instructions. For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

83 YX 102-D. \$5 Monthly..... **39.95**

83 Y 099-D. Outdoor Antenna Kit. Wt., 1 1/2 lbs. **.98¢**

83 Y 257-D. Dual Headset and Plug. Wt., 1 lb. **2.50**



knight-kit

STEREO HI-FI

Our Stereo Twins

WITHIN REACH OF ANY



KG-250 20-Watt Stereo Amplifier Kit

DEVELOPED BY KNIGHT-KIT TO BRING YOU
TRUE HI-FI SOUND AT MINIMUM COST!

less case
\$39⁹⁵

\$5 monthly

- Deluxe Styling and Features at Very Low Cost
- DC on Preamp Tube Filaments for Minimum Hum
- Magnetic Phono Inputs; Push-Pull Output Stage
- Exceptionally Easy to Build and to Operate
- Quality Output Transformers for Clean Sound

The finest 20-watt stereo amplifier kit you can buy! You get sophisticated styling, top dollar-value, 10 clean watts of continuous sine wave power on each channel, and simplified point-to-point wiring for the easiest assembly imaginable. Has: built-in, equalized (RIAA) pre-amplifiers for magnetic cartridges; DC-operated filaments; separate boost-and-cut bass and treble controls; push-pull output. Selector switch offers instant choice of stereo, stereo reverse or monophonic performance, as well as phono, tuner or auxiliary functions. Two-piece chassis construction simplifies assembly. 4 1/8" (plus 5/8" legs) x 13 1/4" x 8 1/2". With instructions. Less case, below. For 110-125 v., 60 cycle AC. Wt., 16 lbs.

83 YX 317-D. \$5 Monthly 39.95

83 YX 031-D. Metal Case. Cordovan Gray. Wt., 6 lbs. 4.95

83 YX 030-D. Wood Case. In attractive oiled walnut. 7 lbs. 9.95

SPECIFICATIONS

Rated Power Output: 20-watts sine wave (24 watts IHFM). **Frequency Response:** ± 1 db, 30-15,000 cps at rated output. **Harmonic Distortion:** Below 1.5% at 20 watt level. **Hum and Noise:** Tuner, -65 db at 20 watts; Magnetic Phono, -50 db at 20 watts. **Inputs and Sensitivity:** Magnetic Phono, 6 millivolts; Ceramic Phono, 400 millivolts; Tuner, 1 volt; Auxiliary, 1 volt. **Output Impedances:** 4, 8, 16 ohms. **Feedback:** 13 db negative. Tubes: 2—ECC83/12AX7, 4—ECL82, 1—EZ81/6CA4.



Concentric clutch-type control varies volume of channels separately or simultaneously—compensates for differences in inputs or loudspeakers used.



Deluxe styling features front panel of solid, extruded aluminum for a professional look.



Single selector switch provides choice of inputs as well as selection of stereo, stereo reverse and monophonic operation.

Sound Great--Look Like Twice the Price

BUDGET...LOTS OF FUN...AND SO EASY TO ASSEMBLE



KG-50 Stereo Multiplex FM-AM Tuner Kit

KNIGHT-KIT BRINGS YOU SPARKLING STEREO FM, CONVENTIONAL FM AND AM AT LOW COST

less case
\$69⁹⁵
 \$5 monthly

- FM Tuning Eye; Edge-Lit Dial; Modern Styling
- Factory Assembled and Aligned FM Front End
- Automatic Stereo Indicator Light on Front Panel
- Filtered Recording Outputs for the Finest Tapes
- AFC for Stable, High-Fidelity FM Performance

Enjoy panoramic stereo FM that surrounds you with fabulous sound, plus conventional FM and the news, weather and sports offered on AM, with the high-styled KG-50! Popular-priced, it packs a wealth of deluxe features—introduces a new level of performance for economy stereo tuners. Wonderfully easy assembly and drift-free sound are assured by factory-wired and pre-aligned FM front end, pre-tuned IF and multiplex coils, and neat point-to-point wiring. FM tuning eye; stereo indicator light; separation control; cathode-follower outputs; AFC circuitry; filtered recording outputs; 10-kc IF bandwidth for AM. 4 $\frac{1}{8}$ (plus $\frac{5}{8}$ " legs) $\times$ 13 $\frac{3}{8}$ $\times$ 7 $\frac{3}{4}$ ". Instructions. Less case, below. For 110-125 v., 60 cycle AC. 15 lbs.

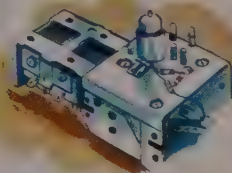
83 YX 720-D. \$5 Monthly **69.95**
 83 YX 019-D. Metal Case. Cordovan Gray. Wt., 6 lbs. **4.95**
 83 YX 018-D. Wood Case. Attractive oiled walnut. 7 lbs. **9.95**

SPECIFICATIONS

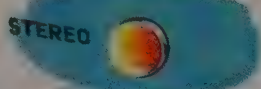
Usable IHFM FM Sensitivity: 3 μ v for 30 db quieting. IF and Detector Bandwidth: 200 kc. Response: $\pm$ 1 db, 50-15,000 cps. Hum and Noise: 40 db below 1 volt. Multiplex Channel Separation: 30 db. AM Sensitivity: 3 μ v for 10 db S/N. IF Bandwidth: 10 kc. Hum and Noise: 40 db below 1 volt. Antennas: FM, 300-ohm twin line; AM, ferrite loopstick. Tubes: 6C9, 6BE6, 6HS6, 6BN8, 6HR6, 6AG11 Compactron, DM70 Tuning Eye, 6X4 Rectifier, 2-12AU7.



"Exclamation point" tuning eye for pin-point accuracy in tuning conventional and stereo FM.



FM front end is factory assembled and aligned for perfect operation and superb sound.



Front panel stereo indicator light flashes on immediately whenever FM stereo program is being received.



knight-kit

STEREO HI-FI



KU-45A 32-Watt Stereo Mx FM-AM Receiver Kit

less case

\$139⁹⁵

\$7 monthly

- Stereo Multiplex Indicator Light; FM and AM Tuning Eye
- Excellent FM Sensitivity— $2\frac{1}{2}$ Microvolts Usable IHFM for 30 db Quieting
- Complete Preampifier Facilities—32-Watts Stereo Amplifier
- AFC and DSR for Drift-Free, Distortionless Stereo and Monophonic FM
- Factory Assembled and Wired Front End—Needs No Adjustments

For the quality-conscious, budget-minded music lover—everything you need is in our "Audio Center" kit! On a single chassis you get: a 32-watt stereo amplifier; dual preamps for records and tapes with a full set of controls; plus FM-AM tuner with the very latest built-in stereo multiplex FM circuit and stereo indicator light. Add only speakers and stereo record changer or tape transport for a complete stereo system capable of magnificent sound reproduction. FM section has: AFC for "lock-in" tuning; DSR for distortion-free FM reception; factory assembled, and aligned front-end for quick, easy assembly with no critical adjustments, and rock-like stability; and preci-

sion-engineered multiplex circuit to give you all the beauty and realism FM stereo offers. AM section has 3 μ v sensitivity for plenty of pull-in power. Amplifier section has tapped-screen linear output for clean sound; tape recorder inputs and outputs; center channel output for remote speakers. Satin gold and mocha brown panel. With all parts and instructions. $4\frac{3}{4} \times 16\frac{1}{2} \times 13"$. For 110-125 v., 60 cycle AC. Shpg. wt., 30 lbs

83 YU 752-D. \$7 Monthly..... **139.95**

83 YX 021-D. Wood Case. Oiled walnut. 9 lbs. **14.95**

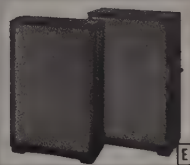
83 YX 646-D. Metal Case. Beige. 7 lbs. **7.95**

SPECIFICATIONS

Amplifier Section—Power Output: 32 watts continuous sine wave. **Frequency Response:** ± 1 db, 30 to 16,000 cps at full rated power. **Harmonic Distortion:** 1% at full rated power. **Hum and Noise:** -75 db or better in Tuner position. **Output Imped-**

ances: 4, 8, 16 ohms each channel; 8 and 16 ohms center channel. **Tuner Section—FM Sensitivity:** $2\frac{1}{2}$ μ v usable IHFM for 30 db quieting. **IF Bandwidth:** 200 kc at 3 db down. **AM Sensitivity:** 3 μ v for 10 db S/N ratio. **Tubes:** 19, tuning eye, rectifier.





Complete 32-Watt Stereo Home Music System Featuring the Outstanding Knight-Kit KU-45A Receiver Kit

Save up to \$35.10

\$289⁹⁵

\$15 monthly

KU-45A Has These Custom Features

**LATEST STYLE
PUSHBUTTON
OFF-ON SWITCH**

Eliminates resetting volume when unit is turned "on"

**BAR TYPE
TUNING
"EYE"**

Pinpoint tuning accuracy on both AM and FM signals

**FM
STEREO
INDICATOR
LIGHT**

Tells you when you're tuned to a multiplex stereocast

32-WATT STEREO RADIO/PHONO KIT SYSTEM

- (A)** Knight-Kit KU-45A Stereo Multiplex FM-AM Receiver Kit With Handsome Hand-Rubbed Oiled Walnut Case
- (B)** Garrard AT6 4-Speed Automatic Turntable and Walnut Base
- (C)** Your Choice of One of Three Deluxe Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT
- (D)** Two Knight KN-820 12" Speakers with Knight KN-1286 Oiled Walnut Shelf Enclosures; All Cables and Plugs

Brings thrilling stereo from records and FM. Garrard AT6 gently handles records—plays all 4 speeds accurately. Each of the cartridges has a diamond stylus for long record life and minimum wear. The KN-820's have 40 to 14,000 cps response for clean, clear sound. The KN-1286's are a perfect acoustical match, and complement any decor. 126 lbs. Shipped express. *Specify Cartridge.*

22 HF 771-D. \$15 Monthly..... **289.95**

CUSTOM STEREO RADIO/PHONO KIT SYSTEM

As above, but less wood case for KU-45A and less KN-1286 Shelf Enclosures. For custom installation in your own cabinetry or music wall. Changer base in mahogany, walnut or limed oak—*specify* when ordering. 73 lbs. Shipped express. *Specify Cartridge.*

22 HF 787C-D. Save up to \$30.25. \$11 Monthly..... **219.95**

DELUXE STEREO RADIO/PHONO KIT SYSTEM

Similar to first system, above, except **(E)** Two Knight KN-2250K 3-Way "Thin-Line" Walnut Speaker System Kits in place of **(D)** Two KN-1286 Enclosures and Two KN-820 Speakers. Response 35 to 19,000 cps. 142 lbs. Shipped express. *Specify Cartridge.*

22 HF 772-D. Save up to \$36.65. \$16 Monthly..... **314.50**

Make Your Knight-Kit Purchase on Our Credit Fund Plan

ALLIED 11



knight-kit

STEREO HI-FI



KG-320 All-Transistor 32-Watt Stereo Amplifier Kit

less case

\$59⁹⁵

\$5 monthly

- 14 Transistors and 4 Diodes for Unexcelled, High-Fidelity Performance
- Direct Coupled Output—No Output Transformers or Blocking Capacitors
- Complete Freedom From Microphonics—Virtually No Hum, Noise or Heat
- Plays Instantly; Economical—Extremely Low Power Drain

Distinguished by modern styling and reliable performance, this fully transistorized amplifier reproduces sound with striking fidelity to delight even the professional musician! The KG-320 offers a host of fine features: instant and cool operation; freedom from microphonics and noise; functionally grouped controls; and advanced, space-age circuitry. Uses genuine direct coupling between output stage and speakers. There are no output transformers or blocking capacitors to mar faithful stereo reproduction. Knight-Kit pioneered "Thermal Feedback" circuit protects the precision output transistors from overload, and helps maintain circuit stability at all

times. 5 paired stereo inputs including tape head; separate ganged bass and treble controls; channel balance control; master volume control; reliable printed circuit construction; tape recorder outputs; 2 switched AC outlets; and stereo-mono switch.

Extruded aluminum panel in Sierra Gold and Charcoal. 23 3/4 x 10 x 8 1/2". Matching tuner on page 3. With step-by-step instructions. Less optional cases, below. For 110-125 v., 60 cycle AC. Wt. 13 lbs.

83 YX 601-D. \$5 Monthly..... **59.95**

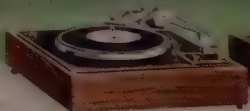
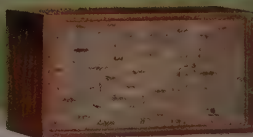
83 YX 016-D. Wood Case. Oiled walnut. 7 lbs..... **9.95**

83 YX 017-D. Metal Case. Brown. 6 lbs..... **4.95**

SPECIFICATIONS

Output Impedance: Matches 8 or 16-ohm load. **IHF Music Power Output:** 32 watts. **Frequency Response:** 25 to 18,000 cps (± 1 db) at rated power. **Harmonic Distortion:** 1% at rated output.

Hum and Noise: -77 db. **Channel Separation:** 30 db or better. **Bass and Treble Boost:** 10 db. **Bass and Treble Cut:** 16 db. **Power Consumption:** 10 watts with no signal.



Great Sound! Knight-Kit Transistor Stereo Systems



**FULL
32
WATTS**

Save up to \$26.65
\$164⁵⁰
\$9 monthly

ALTERNATE

Save up to \$30.10
\$209⁹⁵
\$11 monthly

ALTERNATE

TOP-VALUE STEREO PHONO SYSTEM

[A] Knight-Kit Model KG-320 All-Transistor 32-Watt Stereo Amplifier Kit with Walnut Case.
[F] Garrard Autoslim/P 4-Speed Changer, Walnut Base
[C] Your Choice of One of Three Cartridges: Empire 880, Shure M3D, or Pickering U38AT
[G] Two Knight KN-2222 3-Way Walnut Speaker Systems
 includes all cables and plugs plus Allied's own Music System Instruction Booklet. System offers you unusual versatility of installation, striking styling and performance that only transistors give. KG-320 amplifier kit is extremely compact; brings you instant and cool operation, full frequency reproduction, functionally grouped controls. Autoslim/P handles your precious records gently and quietly. Each cartridge has diamond stylus for long record life. "Thin-Line" styled KN-2222 Systems fit on floor, wall, or shelf. Response 55-18,000 cps. Wt., 18 lbs. Shipped express. *Specify cartridge.*
22 HF 765-D. \$9 Monthly. 164.50

ALTERNATE. SAVE UP TO \$27.25

For custom installation. Similar to above, except **(E)** Two Knight KN-800HC 12" 3-Way High-Fidelity Speakers in place of **(D)** KN-2222's. Less amplifier case, facing page. Speakers give excellent 35 to 15,000 cps response. Changer base in mahogany, walnut, limed oak—*specify.* Wt., 61 lbs. Shpd. Exp. *Specify cartridge.*
22 HF 766-D. \$9 Monthly. 173.95

DELUXE STEREO PHONO SYSTEM

[A] Knight-Kit Model KG-320 All-Transistor 32-Watt Stereo Amplifier Kit with Walnut Case
[F] Garrard AT6 Automatic Turntable, Walnut Base
[C] Your Choice of One of Three Cartridges: Empire 880, Shure M3D, or Pickering U38AT
[G] Two Knight KN-820 12" High-Fidelity Speakers with Two Knight KN-1286 Walnut Shelf Enclosures
 You also receive all cables and plugs plus Allied's own Music System Instruction Booklet. Deluxe system reproduces sound with fidelity to delight everyone! The KG-320 amplifier develops a full 32 watts of clean, clear music power that is directly coupled to your speakers. The KN-820's have 2 cones—response 40-14,000 cps for impressive sound. The KN-1286 enclosures enhance any room decor. Garrard AT6 turntable rotates precisely. Each cartridge has diamond needle. 107 lbs. Shipped express. *Specify cartridge.*
22 HF 767-D. \$11 Monthly. 209.95

ALTERNATE. SAVE UP TO \$36.20

As above, but with **(H)** Two Knight KN-2275 4-Way Walnut Speaker Systems in place of **(G)** KN-820's and KN-1286's. Feature modern "Thin-Line" design that offers many attractive positioning possibilities. Extremely smooth response from 30 to 20,000 cps. Wt., 123 lbs. Shipped express. *Specify cartridge.*
22 HF 768-D. \$14 Monthly. 269.95

Buy Your Knight-Kit System With Our Credit Fund Plan

ALLIED 13



knight-kit

STEREO HI-FI



KG-400 32-Watt Stereo High-Fidelity Amplifier Kit

less case
\$59⁹⁵

\$5 monthly

- DC on All Preamp Tube Filaments Reduces Hum to the Vanishing Point
- Handsome Extruded Aluminum Front Panel
- Independent Tape Inputs and Outputs
- Balance Control for Precise Stereo Setting
- Center Channel Output for Extension Speakers

A remarkable value by any standard of comparison, the KG-400 represents an outstanding achievement in do-it-yourself audio development. Capable of strikingly pure reproduction, it produces 16 watts of continuous sine wave power per channel for a total of 32 watts of stereo power output. Two fully integrated preamps provide precise RIAA equalization for all magnetic cartridges. Also incorporates stereo inputs for ceramic cartridge, tuner, and tape head, plus auxiliary source. Versatile controls give you full command of stereo and monophonic reproduction with unexcelled ease and precision. Features: slide switch for paralleling channels when playing monophonic sources; tape recorder outputs unaffected by volume and tone controls. Extruded aluminum gold panel. Size, 4 1/4 x 14 3/8 x 11 3/4". Includes all parts and detailed instructions. Less case, below. For 110-125 v., 60 cycle AC. Shpg. wt., 21 lbs.

83 YU 413-D. \$5 Monthly..... **59.95**

83 YX 023-D. Wood Case. Oiled walnut. 8 lbs..... **9.95**

83 YX 024-D. Metal Case. Cordovan gray. 7 lbs..... **4.95**

SPECIFICATIONS

Power Output: 32 watts sine wave (39 watts IHFM). Frequency Response: ± 1 db, 30 to 16,000 cps at rated power. Harmonic Distortion: less than 1% at full rated power. Hum and Noise: better than 75 db below full output at high level inputs; 52 db below full output at magnetic phono input with 10 mv input reference signal; better than 45 db below full output at tape head input with 10 mv signal.



Knight-Kit KG-400 Stereo Phono Systems



Save Up To \$27.75
\$173.95
 \$9 monthly

ALTERNATE

Save Up To \$30.20
\$215.95
 \$11 monthly

ALTERNATE

32-WATT STEREO SYSTEM

Knight-Kit KG-400 32-Watt Stereo High-Fidelity Amplifier Kit and Oiled Walnut Cabinet

Knight KN-990 4-Speed Automatic Turntable, Base Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D or Pickering U38AT

Two Knight KN-2222 3-Way Walnut Speaker Systems

Includes all cables and plugs and Allied's System Instruction Booklet. Carefully balanced components give you exciting stereo at a budget price. KG-400 delivers the extra power to handle music of wide dynamic range. New KN-990 has a balanced pickup arm that tracks with amazing accuracy—heavy-duty motor assures constant speed. Each cartridge has diamond needle. KN-2222 speaker systems feature full-range response of 55 to 15,000 cps. Shpg. wt., 88 lbs. Shipped express only. Specify Cartridge.

HF 755-D. \$9 Monthly.....173.95

ALTERNATE. SAVE UP TO \$26.80

Similar to above, except (E) Two Knight KN-830 12-inch High-Fidelity Speakers in place of (D) KN-2222 Systems and less amplifier case. KN-830's offer 3-way design with a high-frequency level control for the horn tweeter. Response, 40 to 18,000 cps. Install in cabinetry or music rack. 70 lbs. Shpg. exp. Specify Cartridge.

HF 756-D. \$8 Monthly.....158.95

DELUXE 32-WATT STEREO SYSTEM

(A) Knight-Kit KG-400 32-Watt Stereo High-Fidelity Amplifier Kit and Oiled Walnut Cabinet

(F) Garrard AT6 4-Speed Automatic Turntable, Base

(C) Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT

(G) Two Knight KN-281 2-Way Walnut Speaker Systems

Includes all cables and plugs plus Allied's own Music System Instruction Booklet. Delivers wide-range, natural stereo sound. KG-400, in easy-to-build Knight-Kit form, supplies 32 watts of stereo sound with full-fidelity. AT6 combines record changer convenience with the smooth, precision performance of a turntable. All cartridges have diamond needles. KN-281 speakers have modern "Thin-Line" look. Frequency response is from 35 to 15,000 cps. Wt., 104 lbs. Shipped express only. Specify Cartridge.

22 HF 757-D. \$11 Monthly.....215.95

ALTERNATE. SAVE UP TO \$36.20

Similar to above, except (H) Two Knight KN-2275 4-Way Speaker Systems finished in oiled walnut in place of (G) KN-281 Speaker Systems, KN-2275's offer exceptionally powerful bass, smooth, dynamic mid-range, and crisp highs without harshness. Response is 30 to 20,000 cps. 132 lbs. Shpg. exp. Specify Cartridge.

22 HF 758-D. \$14 Monthly.....269.95



knight-kit

STEREO HI-FI

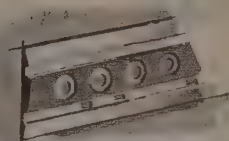
Deluxe Stereo Amplifier and Tuner Kits for Superb Sound — at Modest Cost



*For a Wide Selection
of Complete Stereo
High-Fidelity Systems
Featuring Knight-Kits,
See Pages 18 to 31.*

Night-Kit KA-55 Deluxe 40-Watt Stereo Hi-Fi Amplifier Kit—Value and Performance Leader

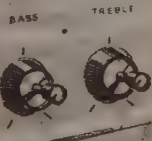
HIGHLIGHTS INCLUDE:



Extruded aluminum panel harmonizes with any decor—in Desert Beige and Sand Gold.



Printed Circuit switches snap into PC board—then solder and it's done—no wiring!

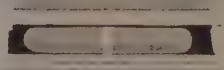


Bass and Treble controls adjust each channel separately or both simultaneously.

CHECK THESE FEATURES!



"Stereofinder" Dimension control helps to locate stations broadcasting stereo FM.



Moving bar-type "Magic-Eye" tuning indicators assure easy "on-station" selection.



Extruded aluminum panel is beautifully styled in Sand Gold and Desert Beige. Made of heavy-gauge metal, its professional looks harmonize with any decorative motif.

with case

\$79⁹⁵

\$5 monthly

truly splendid amplifier kit offering full facilities for any stereo or monophonic and source and plenty of clean power for solid, impressive high-fidelity sound. al-concentric, clutch-type controls regulate bass and treble on each channel arately, or simultaneously. Includes 5 pairs of stereo inputs; separate recording puts; rumble and scratch filters; stereo balance control; loudness-volume control; d mode switch that selects regular or reversed stereo, left or right channel alone, through both speakers. A specially designed center-channel output feeds the l audio range to a third speaker, or can be used for extension speakers in other ms. Cordovan Gray steel case, Desert Beige and Sand Gold panel. $4\frac{1}{8}$ (plus $\frac{5}{8}$ " s)x $15\frac{1}{2}$ x $11\frac{1}{8}$ ". Knobs extends $1\frac{1}{4}$ ". With all parts and step-by-step instructions. 110-125 v., 60 cycle AC. Shpg. wt., 29 lbs.

YU 774-D. \$5 Monthly.....79.95

See Page 19 for Stereo Systems with KA-55

SPECIFICATIONS

Power Output: 40-watts sine wave (45 watts, IHFM). Response: ± 1 db, 25-28,000 cps at rated output. Distortion: Harmonic, less than 0.75% at full rated output; IM, less than 1% at full rated output. Hum and Noise: Tuner input, -77 db; Magnetic, -55 db. Inputs: 5 pairs—Tape Head, Magnetic Phono, Ceramic Phono, Tuner and Auxiliary. Sensitivity: Tape Head (NAB) and Magnetic Phono (RIAA), 2.2 mv; Ceramic Phono, 300 mv; Tuner, 300 mv; Auxiliary, 700 mv. Feedback: 38 db negative each channel. Output Impedances: 4, 8, and 16 ohms each channel; 8 and 16 ohms center channel. Center Channel Response: ± 1 db, 25 to 28,000 cps. Tube Complement: 2—6EU7; 2—12AX7; 2—6CMB; 4—6973; GZ34 rectifier.

Night-Kit KF-90 Deluxe Stereo Multiplex FM-M Tuner Kit—A Milestone in Wideband Design

- $1\frac{1}{2}$ Microvolt Usable IHFM Sensitivity
- Variable AFC Provides Drift-Free "Lock-In" Tuning
- RF Coils and IF Transformers Are Factory Pre-Aligned
- "Stereofinder" Dimension Control Locates FM Stereocasts
- Dynamic Sideband Regulation for Distortion-Free Sound

with case

\$99⁹⁵

\$5 monthly

or the most exciting stereo performances ever heard, add the top-performing r-90 to your hi-fi system. Its advanced circuitry provides breathtaking stereo ultiplex FM reception with excellent channel separation, plus brilliant conven- onal FM and AM broadcasts. Because of strong pull-in power, it's an ideal choice r fringe areas where signals are weak. True wideband design and Dynamic Side- and Regulation (DSR) set new standards in distortion-free reception. Includes: Stereofinder" function for locating stereocasts; variable AFC for lock-in tuning; oving bar-type tuning indicators; cathode-follower outputs; and printed circuit ard construction for easier-than-ever assembly. Cordovan Gray steel case; nel in Desert Beige and Sand Gold. $4\frac{1}{8}$ (plus $\frac{5}{8}$ " legs)x $15\frac{1}{2}$ x $16\frac{1}{2}$ ". Knobs extend $1\frac{1}{4}$ ". With all parts, instructions. For 110-125 v., 60 cycle AC. 28 lbs.

3 YU 914-D. \$5 Monthly.....99.95

SPECIFICATIONS

FM Sensitivity: $1\frac{1}{2}$ μ v usable IHFM sensitivity for 30 db quieting. IF Bandwidth: 200 kc at 50% down on curve. Hum and IF Noise: 60 db below 1 volt. AFC Pull-in: ± 150 kc, variable. Image Rejection: 60 db. Frequency Response Without De-emphasis: Essentially flat from 20-20,000 cps. Multiplex Channel Separation: 30 db. Stereocast Signal Suppression: 60 db or better. AM Sensitivity: 3 μ v for 10 db S/N ratio. 10-Kc Whistle Filter: 40 db rejection. Hum Level: 60 db below 1 volt. Frequency Response: Narrow—20 to 7,000 cps, 6 db down at 3.5 kc. Wide—20 to 10,000 cps, 6 db down at 6.5 kc.



knight-kit

STEREO HI-FI

Super-Power Amplifier Kit



KA-95 70-WATT STEREO HIGH-FIDELITY AMPLIFIER KIT AT A NEW LOW PRICE

with case **\$99.95** Was \$119.95

- 6 Pairs of Stereo Inputs for All Sources
- DC on Preamp Filaments for Minimum Hum
- Independent Tape Inputs and Outputs

The mighty KA-95 at the unbelievably low price of 99.95, includes every feature necessary for maximum flexibility and finest stereo reproduction! Its deluxe preamplifier section has stereo "Blend" control that lets you electronically "move" your speakers together or apart for optimum stereo effect. Has special center channel speaker output for a third speaker or hookup of remote speakers. Six pairs of stereo inputs accommodate every music source. Clutch-type, dual-concentric bass and treble controls let you individually or simultaneously adjust channels for tone you desire. Includes Balance control; Source-Tape monitor to permit comparison of recording with input signal; tape head equalization; rumble and scratch filters; input paralleling switch for playing monophonic records. Master volume control becomes bass-boosting loudness control when switched into circuit. DC on all preamp filaments. Handsome metal case in Cordovan gray; panel, beige and gold. 4 1/8 x 7 1/2 x 13 1/2 plus 1 1/4" knobs. For 110-125 v., 60 cycle AC. 44 lbs.

83 YU 934-D. \$5 Monthly..... **99.95**

CUSTOM FEATURES INCLUDE:



Printed Circuit Switch snaps into PC board—solder it—and you're done!



Tape-Source Monitor lets you hear your tape while you're making a recording.

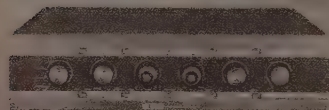


Dual Concentric Bass and Treble Control adjust channels separately or together.

SPECIFICATIONS

Power Output: 70 watts continuous, 80 watts IHFM. Frequency Response: $\pm 1/2$ db, 20 to 30,000 cps at rated output. Distortion: Harmonic, 0.5% at rated output; IM, below 1% at rated output. Hum and Noise: High Level inputs, 85 db below rated output; Mag.-Phono input, 55 db below rated output. Inputs: (6 pairs) Tape Head; Mag. Phono; Cer. Phono; Tuner; Aux.; Tape. Output Impedance: 4, 8, 16 ohms each channel; Center Channel, 8 and 16 ohms. Tube Complement: Two each—12AY7, 7025, 6X86, ECC83, GZ34 Rectifier; 4—EL34 Output Tubes.

Superb 70-Watt Stereo Systems—a New World of Hi-Fi Sound



Save \$28.05

\$299.95

\$15 monthly



(A)

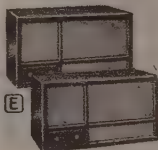


(B)



(D)

ALTERNATE



(E)

- (A) Knight-Kit Model KA-95 70-Watt Stereo High-Fidelity Amplifier Kit with Metal Case

- (B) Garrard "A" 4-Speed Automatic Turntable, Base

- (C) Shure "Gard-A-Matic" Cartridge, Diamond Stylus

- (D) Two Knight KN-612HC 12" High-Fidelity Speakers

Includes all cables and plugs, Allied System Instruction Booklet. Type "A" combines turntable performance with record changer convenience. KN-612HC speakers have 30 to 19,000 cps response. Changer base in mahogany lined oak, walnut—specify. 142 lbs. Express. 22 HF 745 C-D. Specify Cartridge..... **299.95**

ALTERNATE. SAVE \$32.05

Similar to above, except (E) Two Knight KN-2300 3-Way Walnut Speaker Systems in place of (D) KN-612HC's. Outstanding 25 to 20,000 cps response. Changer base in walnut. Wt., 168 lbs. Shipped express. 22 HF 746-D. \$18 Monthly..... **375.95**

40-Watt Stereo Systems—Top Buys for Everyone



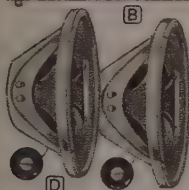
**Full
40
Watts**



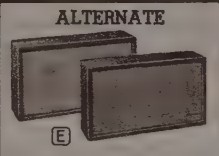
Save up to \$25.25

\$184⁹⁵

\$10 Monthly



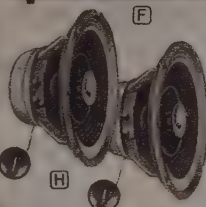
ALTERNATE



Save \$28.05

\$239⁹⁵

\$12 Monthly



ALTERNATE



Systems Featuring the Knight-Kit KA-55 Stereo Amplifier Kit

CUSTOM STEREO PHONO SYSTEM

- A** Knight-Kit Model KA-55 40-Watt Stereo High-Fidelity Amplifier Kit with Metal Case
- B** Garrard AT6 4-Speed Automatic Turntable, and Base
- C** Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT
- D** Two Knight KN-830 12" High-Fidelity Speakers

Includes all cables and plugs, Allied's System Instruction Booklet. KA-55 delivers 40 watts of clean power. AT6 turntable rotates precisely regardless of load change. Each cartridge has diamond stylus. KN-830's feature 3-way design. Changer base in mahogany, limed oak or walnut—specify. 80 lbs. Shpd. exp. 22 HF 751C-D. Specify Cartridge. 184.95

ALTERNATE. SAVE UP TO \$26.25

Similar to above, except **(E)** Two Knight KN-281 2-Way Walnut Shelf Speaker Systems in place of **(D)** KN-830's. "Thin-Line" design and 35 to 15,000 cps response. Changer base in walnut. 104 lbs. Shpd. exp. 22 HF 752-D. Specify Cartridge. 229.95

DELUXE STEREO PHONO SYSTEM

- A** Knight-Kit Model KA-55 40-Watt Stereo High-Fidelity Amplifier Kit with Handsome Metal Case
- F** Garrard Type "A" 4-Speed Automatic Turntable, Base
- G** Shure "Gard-A-Matic" Cartridge, Diamond Stylus
- H** Two Knight KN-800HC 12" High-Fidelity Speakers

Plus all cables and plugs and Allied's own System Instruction Booklet. The KA-55 has every desired feature for top listening pleasure. Type "A" is Garrard's best. "Gard-A-Matic" cartridge protects records against scratches and gives full-range response. KN-800HC's deliver superb sound. Changer base in mahogany, limed oak, or walnut—specify. 87 lbs. Shpd. exp. 22 HF 753C-D. \$12 Monthly. 239.95

ALTERNATE. SAVE \$32.05

Similar to above, except **(I)** Two Knight KN-2275 4-Way Walnut Speaker Systems in place of **(H)** KN-800HC's. Have response of 30 to 20,000 cps. Changer base in walnut. Shpg. wt. 139 lbs. Shpd. exp. 22 HF 754-D. \$16 Monthly. 315.95

—WE'LL HELP YOU PICK A SYSTEM—WRITE TO ALLIED TODAY—

Need help in choosing the Knight-Kit stereo music system that's exactly right for you? Would you like to select components for your system yourself? Allied's staff will be happy to answer

any questions you may have about Knight-Kit systems. We'll review the components you select to make sure that you get the best possible performance—and you're under no obligation.



knight-kit

STEREO HI-FI

Model KP-70 Stereo Tape Record-Playback Preamp Kit



PROFESSIONAL QUALITY AT AMAZINGLY LOW COST



CALIBRATED VU METERS

Precision meters permit exact recording-level adjustments. 2-color scales give accurate readings of record and playback level.



"SOUND-ON-SOUND"

Accompany yourself in a duet, trio—even a quartet! Duplicate recordings from channel to channel—adding another "part" each time.

\$89⁹⁵

less case

- Recording and Playback With Most Tape Transports
- Separate, Dual-Channel Record and Play Preamps
- Permits Monitoring While Recording
- "Sound-on-Sound" and "Echo Chamber" Effects
- Ultra-Flexible—Adjusts to Match Most Tape Heads

Famous for its superb performance and sensational array of features, this ultra-flexible tape preamp provides high-fidelity playback and recording with most stereo tape transports. Internal adjustments match KP-70 to most transports. Broad response covers the range from the lowest bass notes through the highest overtones of any musical instrument. With 3-head transports, such as the Knight KN-4000, you can create studio effects—"echo chamber," "sound-on-sound," etc.

Features dual, concentric, clutch-type level controls for microphone and auxiliary inputs, and for playback. Panel switch selects equalization for either 7½ or 3¾ ips on both record and playback modes. Microphone and auxiliary inputs (tuner, etc.) can be mixed on each channel for truly professional recordings. A-B monitor switch permits comparison of tape and source. Jacks accept high-impedance stereo headphones for monitoring your recordings. Can be used with 2 or 3-head transports.

Aluminum panel is styled in Desert Beige and Sand Gold. With instructions, all parts, wire and solder. Size, 4½ (plus ¾" legs)x15½x9½". Less case, below. For 110-125 v., 60 cycle AC. Supplied for 3-head operation—2-head operation requires switch, below. Shpg. wt. 19 lbs.

83 YU 916-D. \$5 Monthly..... **89.95**

83 YU 559-D. As Above, Factory Assembled. For 2 and 3 heads. **139.95**

83 YX 936-D. Cordovan Gray Metal Case for KP-70. 6 lbs. **4.95**

83 Y 940-D. 2-Head Switch. Shpg. wt., 4 oz. **1.95**

Read What *Audio Magazine* Says About the KP-70 Preamp

In its May, 1963 issue, this authoritative voice says: "Providing practically every function required from an amplifier to be used with a tape transport... only in the most expensive units is it possible to do all that can be done with the KP-70... even if all components were available, they would total up to twice the price of the complete kit."

SPECIFICATIONS

Response (independent of transport): ±2 db, 18-22,000 cps. Harmonic Distortion: Recording sections, less than 0.3% at max. recording level; playback sections, less than 0.3% at 2v. output. Input Sensitivity (for max. record level): 0.5 mv at mike inputs; 80 mv at aux inputs. Equalization: NAB at 7½ ips (playback). Internal adjustment permits matching most heads. Separate equalization for 3¾-ips recordings. Bias Oscillator: 65 kc (adjustable to match most heads). Record Head Current: Adjustable to match most heads.

Knight-Kit Stereo Recording Systems

With KP-70
in Kit Form

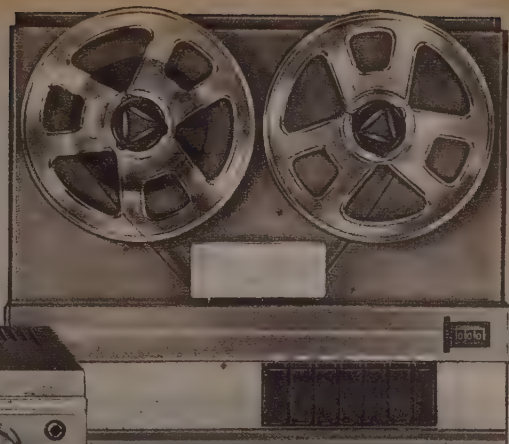
\$209⁹⁰

\$11 monthly

With Wired
KP-70

\$257⁵⁰

\$13 monthly



SAVE \$10.00 ON THIS DELUXE TAPE RECORDING PACKAGE

- Full 4-Track Stereo and Monophonic Taping Facilities
- Transport Has Three Separate Heads, Three 4-Pole Motors
- Preamp Has a Top-Versatility Control Complement
- You Get Double Savings on Systems With Preamp in Kit Form

Save \$10.00 off price of individual components purchased separately. Includes everything you need for making your own studio-quality, 4-track stereo and monophonic tapes. Plays tapes back through your stereo music system. Has complete provision for "sound-on-sound" and "echo-chamber" effects. Just assemble the easy-to-build KP-70 preamp kit and your taping system is ready to operate.

The Knight-Kit KP-70 Stereo Tape Record/Playback Preamp Kit perfectly matches the Knight KN-4000 tape transport. It features a complete set of dual concentric, clutch-type level controls, dual VU meters; high-impedance stereo headphone outputs; and an A-B monitor switch. It is 4 1/8" (plus 5/8" legs) x 15 1/2" x 9 1/2". (See complete description on facing page.)

The Knight KN-4000 Deluxe Pushbutton Tape Transport features three separate heads, three heavy-duty 4-pole motors, and seven convenient "key-board" function controls. Includes positive DC dynamic braking, tape counter and automatic shutoff. Plays at 7 1/2 and 3 3/4-ips speeds. 13 1/2" x 15 1/4" x 7". Desert Beige and Sand Gold. (Full description on page 103.) For 110-125 v., 60-cycle AC. Preamp less case, at left. 45 lbs. Express.

22 HF 741-D. \$11 Monthly. 209.90

22 HF 743-D. Save \$12.40. As above, but with factory assembled preamp. \$13 Monthly. 257.50

79 RU 879-D. Knight KN-4000 Transport Alone. 26 lbs. 129.95

CARRYING CASE

Make tape recordings away from home. Holds above recording systems, plus mikes, cables, tapes and other accessories. Impressive cream and beige styling. Scuff-proof cover; snap locks. 20" x 16 1/2" x 11 1/2". Wt., 15 lbs.

79 RU 870-D. \$5 Monthly. 24.95



Alternate System with 10—7" Reels
of Knight KN-15 1 1/2-Mil Tape



SAVE UP TO \$14.55 ON SYSTEMS WITH TAPE

With KP-70
in Kit Form

\$222⁹⁵

\$12 monthly

With Wired
KP-70

\$271²⁵

\$14 monthly

Save \$12.85 off the cost of individual components purchased separately. Includes the Knight-Kit KP-70 Record/Playback Tape Preamp Kit, the Knight KN-4000 Deluxe Push-Button Tape Transport, plus Ten 7" Reels of Knight KN-15 1 1/2-Mil Acetate Tape. 53 lbs. Express.

22 HF 742-D. \$12 Monthly 222.95

22 HF 744-D. Save \$14.55. Above system, but with factory-wired KP-70 preamp. \$14 Monthly. 271.25

KNIGHT-KITS HAVE "BUILDBILITY"

Every Knight-Kit is engineered for ease of assembly. And the easy-to-follow instructions allow even beginners to build a perfect kit.

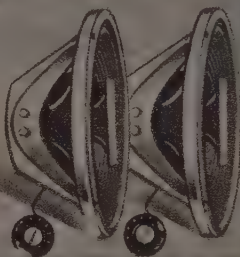
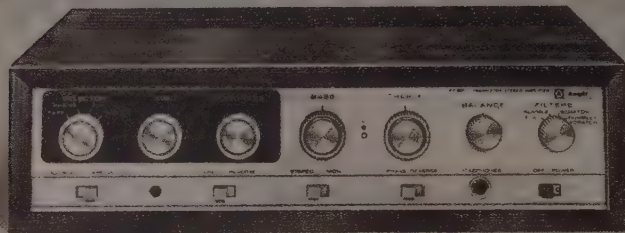
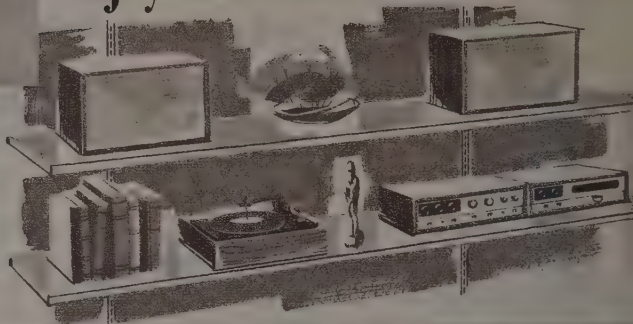


knight-kit
STEREO SYSTEMS

**SPACE SAVING
CUSTOM COMPONENTS**

Here's sparkling stereo in an easy-to-arrange package—made possible by the miracle of transistorization. Gives you freedom from noise, hum and microphonics plus you enjoy unlimited flexibility of installation. For complete specifications and details of the KG-870 amplifier and KG-70 tuner, see pages 2 and 3.

Enjoy the Best Sound with



OPTIONAL STEREO TUNER KIT

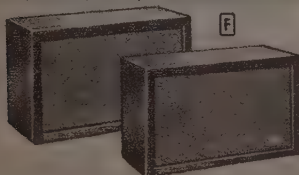


Save up to \$30.25

\$199⁹⁵

\$10 monthly

- (A)** Knight-Kit Model KG-870 All-Transistor 70-Watt Stereo Amplifier Kit (Less Case)
- (B)** Garrard AT6 4-Speed Automatic Turntable and Wood Base
- (C)** Choice of: Empire 880, Shure M3D, or Pickering U38AT Cartridge
- (D)** Two Knight KN-830 12" Speakers All Cables, Plugs, Instructions



70-WATT CUSTOM STEREO PHONO SYSTEM

Great sound, striking styling and exceptional versatility—this perfectly matched system gives you the most for your hi-fi dollar. Includes: Knight-Kit Model KG-870 Deluxe All-Transistor 70-Watt Amplifier Kit (less case, below); Garrard AT6 4-Speed Automatic Turntable and Wood Base; Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT; Two Knight KN-830 3-Way 12" Speakers. Plus cables, plugs, and Allied's own system booklet. The KG-870 has plenty of reserve power for difficult passages. The AT6 and cartridge with diamond needle, bring out the best from records. KN-830's have 40 to 18,000 cps response. AT6 base in mahogany, limed oak or walnut—specify. 66 lbs.

22 HF 774C-D. \$10 Monthly. Specify Cartridge. Express.....	199.95
22 HF 780C-D. Stereo Radio/Phono System. Save up to \$35.65. Above, with (E) KG-70 Tuner Kit (less case). 86 lbs. Specify Cartridge.....	294.50
83 YX 036-D. KG-870 Metal Case. Brown. 7 lbs.....	6.95
83 YX 035-D. KG-870 Wood Case. Oiled walnut. 9 lbs.....	12.95
83 YX 033-D. KG-70 Metal Case. Brown. 6 lbs.....	4.95
83 YX 032-D. KG-70 Wood Case. Oiled walnut. 9 lbs.....	9.95

OPTIONAL SYSTEMS WITH ENCLOSURES, TUNER

Save up to \$35.10. Above stereo phono system with (F) Two Knight KN-1286 Walnut Shelf Enclosures for KN-830 speakers, and walnut cabinet for KG-870 amplifier kit. Changer base in walnut. 119 lbs.

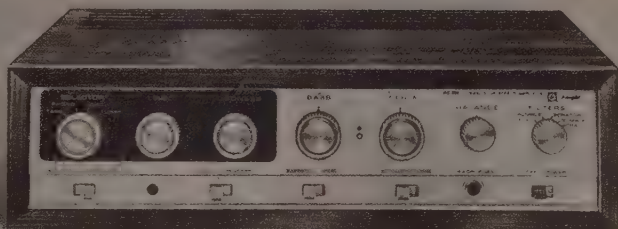
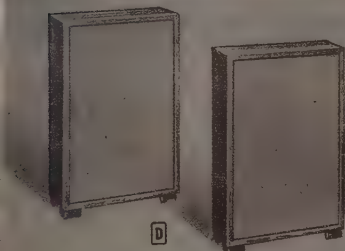
22 HF 779-D. \$14 Monthly. Specify Cartridge. Express.....	267.95
22 HF 783-D. Stereo Radio/Phono System. Save up to \$43.00. Above, plus (E) KG-70 Tuner Kit, Walnut Case. 140 lbs. Specify Cartridge.....	369.95

A Stereo System Featuring Transistor Components

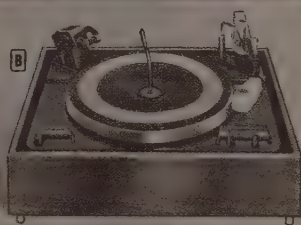


EXPERTLY MATCHED CUSTOM COMPONENTS

Perfect musical balance is assured in all Knight-Kit high fidelity systems. All components are carefully selected by Allied's audio experts to match one another in quality and operating characteristics . . . to give you maximum listening pleasure. Plug-in connecting ease is yours, too. You get all required cables and connectors—anyone can set up a Knight-Kit system—quickly and easily!



OPTIONAL STEREO TUNER KIT



DELUXE 70-WATT STEREO PHONO SYSTEM

A luxury system for brilliant stereo listening—first-quality components are carefully matched for the best in sound. Includes: Knight-Kit Model KG-870 Deluxe All-Transistor 70-Watt Stereo Amplifier Kit and Walnut Cabinet; Garrard Type "A" Deluxe 4-Speed Automatic Turntable and Walnut Base; Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT; Two Knight KN-2250K "Thin-Line" 3-Way High-Fidelity Speaker System Kits Finished in Walnut. Plus you get all cables, plugs, and Allied's Music System Instruction Booklet.

The KG-870 produces a full 70-watts of breathtaking, distortionless sound. Type "A" plays all records at constant speed, regardless of load or voltage change. All cartridges have diamond styli. The KN-2250K's offer true 3-way design for finest sound. 35 to 19,000 cps response. Easy mounting or placement—just 6 $\frac{1}{8}$ " deep. 134 lbs. Shipped express.

22 HF 781-D. \$15 Monthly. Specify Cartridge. 297.95

22 HF 784-D. Stereo Radio/Phono System. Save up to \$44.20. Above, plus

(E) KG-70 Tuner Kit and Walnut Case. 155 lbs. Specify Cartridge. . . 399.95

ALTERNATE SYSTEMS

CUSTOM STEREO PHONO SYSTEM. Save up to \$33.80. Above stereo phono system with (F) Two Knight KN-800HC 12" Speakers in place of (D) KN-2250K's. 35 to 15,000 cps response. Changer base in mahogany, lined oak or walnut—specify. Less amplifier case. 73 lbs. Express.

22 HF 777C-D. \$13 Monthly. Specify Cartridge. 247.50

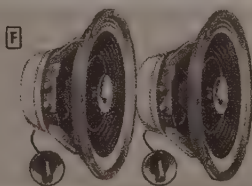
22 HF 782C-D. Stereo Radio/Phono System. Save up to \$39.75. Above, plus (E) KG-70 Tuner Kit (less case). 86 lbs. Specify Cartridge. 341.50

Save up to \$36.30

\$297⁹⁵

\$15 monthly

- (A) Knight-Kit Model KG-870 Transistor 70-Watt Stereo Amplifier Kit, and Walnut Case
- (B) Garrard Type "A" 4-Speed Automatic Turntable, Base
- (C) Choice of: Empire 880, Shure M3D, or Pickering U38AT Cartridge
- (D) Two Knight KN-2250K "Thin-Line" Speaker System Kits All Cable, Plugs, Instructions



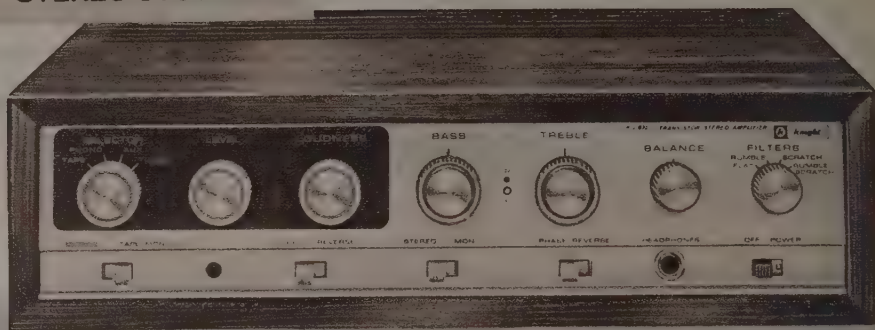
Knight-Kit Systems Are Expertly Matched for Finest Sound



knight-kit

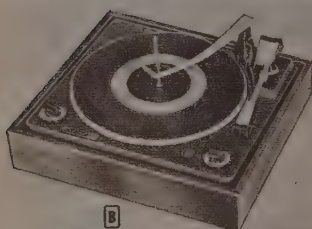
STEREO SYSTEMS

Fabulous Buys in Complete



**Full
70
Watts**

A



B

Save up to \$28.25

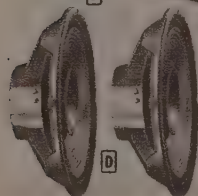
\$177⁵⁰

\$9 monthly



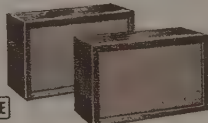
C

OPTIONAL



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ECONOMY 70-WATT STEREO SYSTEM

A Knight-Kit KG-870 All-Transistor 70-Watt Stereo High-Fidelity Amplifier Kit (less case, facing page)

B Knight KN-990 4-Speed Automatic Turntable, Base

C Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT

D Two Knight KN-820 12" High-Fidelity Speakers

You also receive all cables and plugs plus Allied's own Music System Instruction Booklet. The new KG-870 Transistorized Stereo Amplifier, in kit form, provides flawless reproduction of all music sources. The Knight KN-990 handles all your records with gentle care. Each of the three cartridges features diamond stylus for long record life. KN-820 speakers are only 4" deep—easy to mount in walls or cabinets. They provide 40-14,000 cps response. Changer base in hand-rubbed walnut. 56 lbs. Shipped express. Specify Cartridge.

22 HF 773-D. \$9 Monthly.....177.50

OPTIONAL PKG. SAVE UP TO \$33.65

As above, but with **(E)** Two Knight KN-1286 Shelf Speaker Enclosures finished in walnut to house KN-820's. Vented-port design enhances bass response of speakers. Also includes handsome walnut case for amplifier. Wt., 109 lbs. Shipped express. Specify Cartridge.

22 HF 776-D. \$13 Monthly.....244.95



Save up to \$31.70

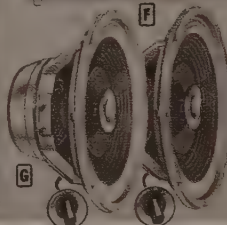
\$224⁵⁰

\$12 monthly



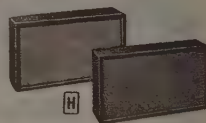
C

ALTERNATE



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LOW-COST 70-WATT STEREO SYSTEM

A Knight-Kit KG-870 All-Transistor 70-Watt Stereo High-Fidelity Amplifier Kit (less case, facing page)

F Garrard AT6 4-Speed Automatic Turntable, Base

C Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT

G Two Knight KN-800HC 12" High Fidelity Speakers

Plus cables and plugs and Allied's own Music System Instruction Booklet. Custom combination features the KG-870 Amplifier kit; easy to build, modern decorator styling, virtually no hum, heat, or distortion. Garrard AT6 combines record changer convenience with turntable performance. Each cartridge includes diamond stylus for minimum record wear. Knight KN-800HC speakers have 3-way design. Response, 35 to 15,000 cps. Changer base in mahogany, limed oak, or walnut—specify. 66 lbs. Express. Specify Cartridge.

22 HF 775C-D. \$12 Monthly.....224.50

ALTERNATE. SAVE UP TO \$34.20

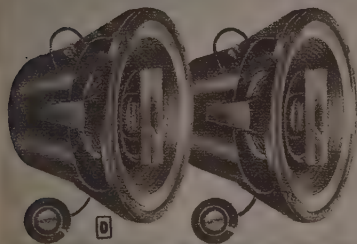
Similar to above, except **(H)** Two Knight KN-281 2-Way High-Fidelity Walnut Shelf Speaker Systems in place of **(G)** KN-800HC's. "Thin-Line"—only 6 1/2" deep. Response is 35 to 15,000 cps. Changer base, amplifier case in walnut. 99 lbs. Express. Specify Cartridge.

22 HF 778-D. \$13 Monthly.....254.95

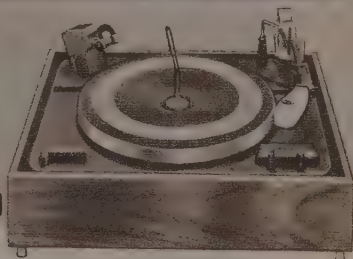
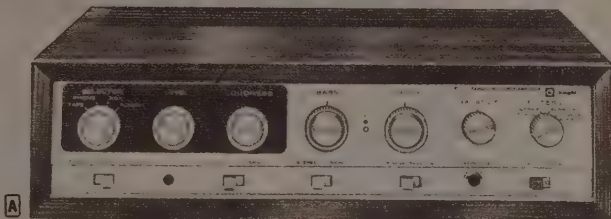
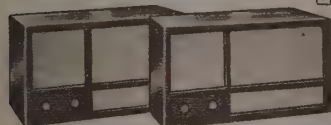
Knight-Kit Transistorized Stereo Music Systems

TRANSISTORIZED STEREO HI-FI

The use of transistors in hi-fi components brings to the art such advantages as: never-before-possible reliability, exceptional stability, extremely low current drain, instant warm-up, and virtual freedom from heat, hum, and extraneous noises. At last, truly compact design is a reality. And, there is no limitation on frequency response! See Page 2 for complete specifications of the KG-870.



ALTERNATE



DELUXE 70-WATT STEREO MUSIC SYSTEM

Super-quality record playing system provides unusual flexibility of installation, luxurious styling, and thrilling performance. Includes: Knight-Kit Model KG-870 Deluxe All-Transistor 70-Watt Stereo Amplifier Kit (less case, below); Garrard Type "A" 4-Speed Automatic Turntable and Wood Base; Shure M99/A "Gard-A-Matic" Stereo Cartridge and Diamond Stylus; Two Knight KN-612HC 12" High-Compliance, Deluxe High-Fidelity Speakers. Plus all required plugs, cables and instructions.

KG-870 brings you music as you've never heard it before—completely free from distortion. Garrard "A" combines turntable performance with record changer convenience. "Gard-A-Matic" feature forces stylus to retract into shell if arm is dropped—prevents scratched records. KN-612HC speakers have 3-element design, reproduce 30 to 19,000 cps. Wood base for Garrard Type "A" is supplied in choice of mahogany, limed oak, or walnut specify. Wt., 113 lbs. Shipped express.

22 HF 785C-D. \$15 Monthly.....297.50
83 YX 035-D. Wood Case for KG-870. Oiled walnut. 9 lbs.....12.95
83 YX 036-D. Metal Case for KG-870. Brown. 7 lbs.....6.95

ALTERNATE DELUXE SYSTEM. SAVE \$36.00

Similar to above, except (E) Two Knight KN-2300 Deluxe 3-Way Shelf-Type High-Fidelity Speaker Systems in place of (D) KN-612HC's. Includes oiled walnut case for KG-870 amplifier, and walnut changer base. KN-2300 speakers have distinctive appearance and smooth performance. Response is from 25 to 20,000 cps. 148 lbs. Express.

22 HF 786-D. \$18 Monthly.....384.95

Save \$30.50
\$297⁵⁰
\$15 monthly

- A Knight-Kit Model KG-870 All-Transistor 70-Watt Stereo Amplifier Kit (less case)
 - B Garrard Type "A" 4-Speed Automatic Turntable and Wood Base
 - C Shure "Gard-A-Matic" Stereo Cartridge with Diamond Stylus
 - D Two Knight KN-612HC Deluxe 12" High-Fidelity Speakers
- All Cables, Plugs, Instructions

—NO MONEY DOWN—

Own the system of your choice today for no money down. Our Credit Fund Plan lets you take up to two years to pay. Just fill out the application form on the back of any Allied order blank—for details, see page 433 of this catalog.



knight-kit

STEREO SYSTEMS

*All-in-One...
Stereo FM/
FM-AM Tuner
Plus 32-Watt
Stereo
Amplifier*

A



B

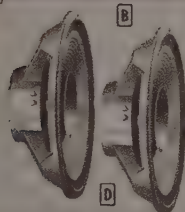
Save up to \$29.35

\$205⁹⁵

less receiver case
\$11 monthly



C



D

OPTIONAL CABINETS



E



F

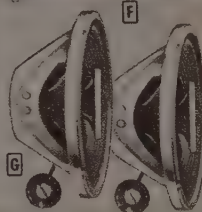
Save up to \$31.35

\$238⁹⁵

less receiver case
\$12 monthly



G



G

ALTERNATE



H

ECONOMY KU-45A STEREO SYSTEM

- A Knight-Kit KU-45A 32-Watt AM-FM Stereo Multiplex Receiver Kit (less case, below)
- B Garrard Autoslim/P 4-Speed Changer, Base
- C Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT
- D Two Knight KN-820 12" High-Fidelity Speakers

You also get all cables and Allied system instructions. KU-45A combines 32-watt stereo amplifier, dual preamps for records and tapes with a full set of controls, FM-AM tuner, plus the latest built-in stereo multiplex FM circuitry. Autoslim/P gently handles records; shuts off automatically after last record. Each cartridge comes with diamond needle. KN-820 speakers have 40 to 14,000 cps response. Changer base in mahogany, limed oak or walnut—specify. 70 lbs. Express. \$11 Monthly.

22 HF 769C-D. Specify Cartridge. 205.95
83 YX 646-D. Metal Case for KU-45A. 7 lbs. 7.95
83 YX 021-D. Walnut Case for KU-45A. 9 lbs. 14.95

OPTIONAL SYSTEM WITH ENCLOSURES

Save up to \$33.20. As above, with (E) two Knight KN-1286 Walnut Enclosures for KN-820's; walnut case for KU-45A; walnut changer base. Shpg. wt., 123 lbs. Express. \$14 Monthly.

22 HF 770-D. Specify Cartridge. 276.95

LOW-COST KU-45A STEREO SYSTEM

- A Knight-Kit KU-45A 32-Watt Stereo Multiplex FM-AM Receiver Kit (less case, left)
- F Garrard AT6 4-Speed Automatic Turntable, Base
- G Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT
- G Two Knight KN-830 12" 3-Way High-Fidelity Speakers

Includes all cables and plugs plus Allied's own system booklet. You get deluxe stereo listening from your records and FM multiplex plus conventional FM and AM with this complete ensemble. The easy-to-build KU-45A has a 32-watt stereo amplifier, FM-AM tuner, and multiplex circuitry, plus a full array of controls—all on a single chassis. AT6 plays 4 speeds with turntable precision, yet offers changer convenience and smooth record handling. KN-830 speakers have 40 to 18,000 cps response. Changer base in mahogany, limed oak or walnut—specify. 81 lbs. Express. \$12 Monthly.

22 HF 788C-D. Specify Cartridge. 238.95

ALTERNATE—SAVE UP TO \$32.75

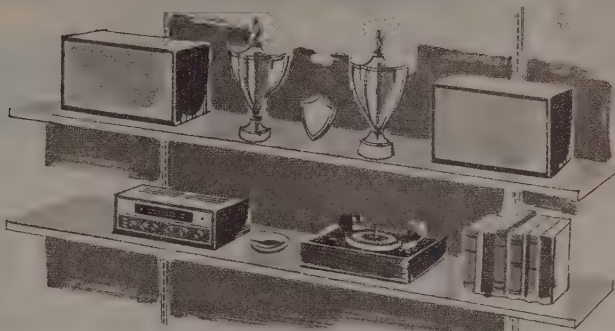
Above, but (H) two Knight KN-2222 3-Way Walnut Speaker Systems in place of KN-830's; walnut case for KU-45A; walnut changer base. Wt., 100 lbs. Express. \$13 Monthly.

22 HF 789-D. Specify Cartridge. 258.50

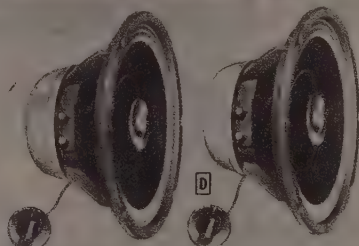
Featuring Knight-Kit KU-45A Stereo Receiver Kit

CHOOSE A KNIGHT-KIT KU-45A "AUDIO CENTER" SYSTEM

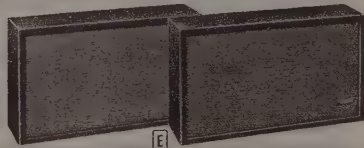
These compact, distinctively styled KU-45A stereo systems bring you a full 32 watts of audio power . . . the brilliant artistry of your stereo records . . . the dazzling beauty and versatility of both stereo and conventional FM . . . the music, news and sports you enjoy on AM . . . plus unlimited placement possibilities in your home or apartment.



Choice of Cartridges



ALTERNATE SPEAKER SYSTEMS



DELUXE CUSTOM STEREO RADIO/PHONO SYSTEM

A tremendous value in a superb array of distinctive custom components, this set brings you flexibility of installation and truly thrilling sound. Ensemble includes: Knight-Kit Model KU-45A 32-Watt Stereo Multiplex FM-AM Receiver Kit, (less case, left); Garrard Type "A" Deluxe 4-Speed Automatic Turntable and Wood Base; Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT; Two Knight KN-800HC 12" High-Compliance, High-Fidelity Speakers. Plus all required cables and plugs and Allied's own music system booklet.

The KU-45A, in easy-to-build kit form, offers powerful 32-watt stereo output or brilliant response from any source; highly sensitive FM section with built-in stereo multiplex circuit; plus AM section for pop music, news and sports. Garrard "A"—their best, is precision made, gently handles your precious records. Cartridge you choose includes a diamond needle for minimum record wear and full-fidelity performance.

KN-800HC's have 35 to 15,000 cps response. Changer base in mahogany lined oak or walnut—specify, 88 lbs. Express.

2 HF 790C-D. \$15 Monthly. Specify Cartridge.....287.95

ALTERNATE DELUXE SYSTEM—SAVE UP TO \$36.75

Similar to above, except (E) Two Knight KN-281 Deluxe "Thin-Line" 2-Way half Speaker Systems finished in walnut, in place of KN-800HC's. Also includes oiled walnut case for KU-45A and walnut changer base. KN-281's are only 6 1/2" deep—deliver superb reproduction, use little space. Response, 15 to 15,000 cps. 121 lbs. Express.

2 HF 791-D. \$16 Monthly. Specify Cartridge.....319.50

Save up to \$33.35

\$287⁹⁵

\$15 monthly

- (A)** Knight-Kit KU-45A 32-Watt AM-FM Stereo Multiplex Receiver Kit (less case, left)
 - (B)** Garrard Type "A" 4-Speed Automatic Turntable, and Base
 - (C)** Your Choice of One Stereo Cartridge: Empire 880, Shure M3D, Pickering U38AT
 - (D)** Two Knight KN-800HC 12" Speakers
- Plus Cables, Plugs, Instructions

—ASK US FOR HELP—

Select from the large number of Knight-Kit stereo hi-fi systems in this book—or pick components of your own choice. Our audio staff will review your selections for proper matching of components to be sure that you enjoy best possible hi-fi performance—and quote you a money-saving system price.

Build a Knight-Kit System and Save Two Ways

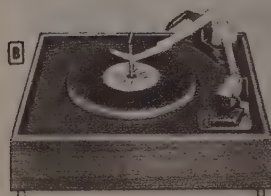


knight-kit

STEREO SYSTEMS

**Full
20
Watts**

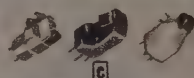
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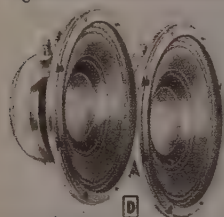
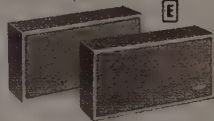
Save up to \$21.25

\$99.95

\$5 monthly



ALTERNATE



D

ECONOMY CUSTOM PHONO SYSTEM

- A** Knight-Kit Model KG-250 20-Watt Stereo High-Fidelity Amplifier Kit (less case, below)
- B** Garrard Autolam/P 4-Speed Record Changer, Base
- C** Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT
- D** Two Knight KN-809 8" High-Fidelity Speakers

Plus all required cables, plugs, instructions and Allied's own system booklet. KG-250 amplifier has: DC on all preamp filaments for minimum hum; 10-watt per channel output; and push-pull circuitry for smooth response. Autolam changer handles all records gently—shuts off automatically after last record plays. All cartridges have diamond needle. KN-809 speakers have 50-12,000 cps response. Changer base in mahogany, limed oak or walnut—specify. 48 lbs. Shipped express.

22 HF 759C-D. \$5 Monthly. Specify Cartridge. 99.95
83 YX 031-D. Metal Case for KG-250. 6 lbs. 4.95
83 YX 030-D. Walnut Case for KG-250. 7 lbs. 9.95

ALTERNATE—SAVE UP TO \$26.20

Similar to above, except **(E)** Two Knight KN-2210 2-Way Speaker Systems in Walnut finish, in place of **(D)** KN-809's. Includes amplifier case in oiled walnut, and matching changer base. Speaker systems give 60 to 14,500 cps response. 71 lbs. Shipped express.

22 HF 761-D. \$7 Monthly. Specify Cartridge. 124.95

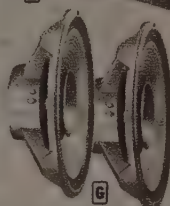
Feature-Value Systems



Save up to \$25.80

\$119.95

\$6 monthly



ALTERNATE



H

LOW-COST CUSTOM PHONO SYSTEM

- A** Knight-Kit Model KG-250 20-Watt Stereo High-Fidelity Amplifier Kit (less case, at left)
- F** Knight KN-990 4-Speed Automatic Turntable, Base
- C** Your Choice of One of Three Stereo Cartridges: Empire 880, Shure M3D, or Pickering U38AT
- G** Two Knight KN-820 12" High-Fidelity Speakers

You also get required cables, plugs, instructions and Allied's own system booklet. You'll hear fine stereo sound at moderate cost with this carefully selected group. The KG-250 amplifier, in easy-to-build kit form, gives great sound and has 4 pairs of inputs to accommodate all your needs. The Knight KN-990 plays all 4 speeds, has a heavy die-cast turntable that rotates precisely, regardless of load or voltage changes. Each of the cartridges has a diamond needle. KN-820's deliver 40 to 14,000 cps response. Changer base styled in attractive walnut finish. 57 lbs. Shipped express.

22 HF 760-D. \$6 Monthly. Specify Cartridge. 119.95

ALTERNATE—SAVE UP TO \$26.80

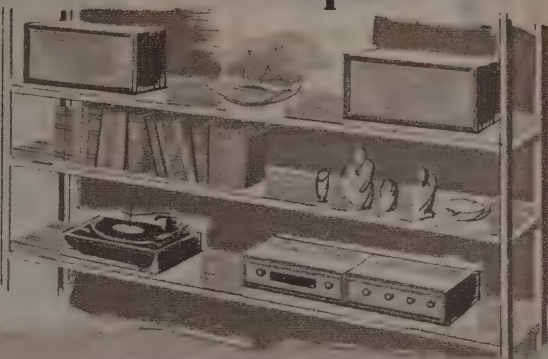
Similar to system listed above, except **(H)** Two Knight KN-830 Speakers in place of **(G)** Knight KN-820's. Speakers give 40 to 18,000 cps response. Changer base styled in attractive walnut finish. Shpg. wt., 65 lbs. Shipped express.

22 HF 762-D. \$7 Monthly. Specify Cartridge. 138.95

with KG-250 20-Watt Stereo Hi-Fi Amplifier Kit

TONAL BALANCE IS IMPORTANT!

Proper tonal balance is as important to enjoyable music listening as proper color balance is to a painting. High notes and low notes should be maintained in the same relationship as they were in the original performance (on record, tape or radio). Knight-Kit amplifiers are designed to assure this proper relationship. In addition, all high-fidelity components in these Knight-Kit stereo systems are carefully selected to match each other in overall quality and performance characteristics.



OPTIONAL KG-50 STEREO TUNER



DELUXE 20-WATT STEREO PHONO SYSTEM

You can't find better quality at a lower price than with this expertly selected stereo phono system. It looks and sounds like twice the price! Blue-ribbon components include: Knight-Kit Model KG-250 20-Watt Stereo High-Fidelity Amplifier Kit with Oiled Walnut Case; Garrard AT6 4-Speed Automatic Turntable and Walnut Base; Your Choice of One of Three Stereo Cartridges; Empire 880, Shure M3D, or Pickering U38AT; Two Knight KN-2222 3-Way Walnut High-Fidelity Speaker Systems. You also receive all required cables and plugs plus Allied's own system booklet.

With each channel of the KG-250 delivering 10 watts of continuous sine-wave power, you're assured of excellent quality stereo sound. The AT6 plays records of all sizes and speeds; handles them with greatest care. Whichever cartridge you choose, you get a diamond needle for long record life with minimum wear and maximum fidelity.

KN-2222 speakers have a woofer, mid-range cone and a compression-type VHF tweeter for dazzling 55 to 18,000 cps response. Handsome oiled walnut finish. 84 lbs. Shipped express.

22 HF 763-D. \$8 Monthly. Specify Cartridge..... 158.95

STEREO RADIO/PHONO SYSTEM WITH KG-50

Save up to \$31.10. Same as stereo phono system above, but also includes (E) Knight-Kit KG-50 Stereo Multiplex FM-AM Tuner Kit and oiled Walnut Case. KG-50 brings flawless reception of every type of broadcast—exciting panoramic stereo FM that surrounds you with sound, wideband conventional FM, and high-quality AM. 106 lbs. Shipped express.

22 HF 764-D. \$12 Monthly. Specify Cartridge..... 234.95

Save up to \$27.20

\$158⁹⁵

\$8 monthly

- A** Knight-Kit KG-250 20-Watt Stereo Amplifier Kit, Oiled Walnut Case
 - B** Garrard AT6 4-Speed Automatic Turntable and Walnut Base
 - C** Choice of Cartridge: Empire 880, Shure M3D, or Pickering U38AT
 - D** Two Knight KN-2222 3-Way Walnut Hi-Fi Speaker Systems.
- Plus All Cables, Plugs, Complete Instructions

CREDIT FUND PLAN

Why wait? Now's the time to put together that stereo hi-fi you've always wanted. Allied's Credit Fund Plan lets you enjoy the system of your choice today—for no money down. And, there's just small monthly payments. See page 433 for details.

You Get More for Your Money with a Knight-Kit Stereo System

ALLIED 29



knight-kit

STEREO HI-FI



**CHECK THESE
GREAT FEATURES!**



**Dual-Concentric
Volume Control . . .**
doubles as a channel
balance control—lets
you precisely adjust
the stereo effect.



**Selected Multi-
Purpose Tubes . . .**
four premium-quality
ECL-86 tubes provide
excellent sound and
long operating life.



**Front-Panel
Selector Switch . . .**
lets you choose
either Tuner or
Ceramic Phono

Low-Cost KG-240 20-Watt Stereo Amplifier Kit

new low price

\$25⁹⁵

less case

- Delivers 10 Watts Per Channel IHFM Music Power
- Accepts Tuner and Ceramic Phono Sound Sources
- Includes Ganged Bass and Treble Tone Controls
- Dual Concentric Volume Control Provides Balance

Reduced \$4.00 below last year's unusually low price, the KG-240 20-Watt Stereo Amplifier Kit is heartily recommended for economy home music systems. Two pairs of inputs are provided to accommodate sources of stereo sound—tuner and ceramic phono—either of which is easily selected by a front panel slide switch.

Ganged bass and treble controls for both channels let you easily make accurate tonal adjustments to suit your listening pleasure. A dual concentric volume control allows fast and simple channel balancing, and will compensate for the positioning of your speakers and room acoustics—provides you with the best stereo effect. The KG-240 uses quality ECL-86 tubes in push-pull circuitry for distortion-free audio reproduction.

All controls are front-panel mounted for utmost convenience. Two pairs of inputs are included. Screw-type terminals for 8 and 16-ohm speakers are located on the rear, with an AC convenience outlet for tuner or phono. Styled in platinum bronze, with white escutcheon, black knobs and chrome trim. Fused, transformer power supply. With all parts, instructions. Less case, below. 5x10x7". For 110-125v., 60 cycle AC. 14 lbs.

83 YX 602-D. \$5 Monthly. **25.95**
83 YX 020-D. Metal Cover for Above. 5 lbs. **3.95**

SPECIFICATIONS

Power Output: 10 watts per channel (IHFM). **Sensitivity for Full Output:** 1/2 volt in Ceramic Phono or Tuner positions. **Frequency Response:** ±1 1/2 db, 35 to 15,000 cps. **Harmonic Distortion:** Less than 1.5% at 10 watts with 1 kc input. **Hum and Noise:** 60 db below 10 watts. **Separation:** 35 db. **Treble Cut:** 10 db cut at 15 kc. **Bass Boost:** 10 db boost at 100 cps. **Output Impedance:** 8 and 16 ohms. **Tube Complement:** Four ECL86 and one EZ81/6CA4. **Fuse:** 3AG, 1 1/2 ampere.

Budget-Stretching Stereo Phono Systems

Featuring Knight-Kit 20-Watt Amplifier Kit

complete
\$59⁹⁵
\$5 monthly



ECONOMY CUSTOM PHONO SYSTEM

- A** Knight-Kit Model KG-240 20-Watt Stereo High-Fidelity Amplifier Kit (Less Case—see facing page)
- B** Admiral 4-Speed Changer, Cartridge (Less Base)
- C** Two Knight KN-809 8" High-Fidelity Speakers

Plus all required cables and plugs, Allied's Hi-Fi System Instruction Booklet. Amplifier delivers clean 20 watts. Turnover cartridge on changer has sapphire needles for LP and 78 records. Speakers give smooth response from 50 to 12,000 cps. Wt., 41 lbs. Express.
22 HF 748-D. \$5 Monthly. Save \$5.85. 59.95

complete
\$94⁹⁵
\$5 monthly
Save \$12.48



MODERATE CUSTOM PHONO SYSTEM

- A** Knight-Kit Model KG-240 20-Watt Stereo High-Fidelity Amplifier Kit (Less Case—see facing page)
- E** Garrard Autoslim/P 4-Speed Changer (Less Base)
- F** Sonotone 9TAF-SD Stereo Cartridge, Diamond Stylus
- G** Two Knight KN-820 12" High-Fidelity Speakers

Plus all cables and plugs, Allied's System Instruction Booklet. KG-240 develops room-filling sound. Cartridge has diamond stylus for LP's; sapphire for 78's. KN-820's give 40-14,000 cps response. 48 lbs. Express.
22 HF 749-D. \$5 Monthly. 94.95
73 RX 057C-D. Changer Base. Specify choice of mahogany, lined oak or walnut. Wt., 6 lbs. 3.90

All Phono Systems Shipped by Express

complete
\$68⁹⁵
\$5 monthly



LOW-COST CUSTOM PHONO SYSTEM

- A** Knight-Kit Model KG-240 20-Watt Stereo High-Fidelity Amplifier Kit (Less Case—see facing page)
- B** Admiral 4-Speed Changer, Cartridge (Less Base)
- D** Two Electro-Voice MC-8 8" High-Fidelity Speakers

Cables and plugs, system instructions. Same as system at left, but E-V MC-8 8" speakers in place of KN-809's. 50 to 13,000 cps response. 35 lbs. Express.
22 HF 747-D. \$5 Monthly. Save \$6.35. 68.95
73 RX 062C-D. Wood Changer Base. Specify choice of walnut, mahogany or lined oak. Wt., 6 lbs. 4.49

complete
\$103⁹⁵
\$6 monthly
Save \$13.38



COMPLETE DELUXE PHONO SYSTEM

- A** Knight-Kit Model KG-240 20-Watt Stereo High-Fidelity Amplifier Kit (Less Case—see facing page)
- E** Garrard Autoslim/P 4-Speed Changer With Base
- F** Sonotone 9TAF-SD Stereo Cartridge, Diamond Stylus
- H** Two Knight KN-2210 2-Way Speaker Systems

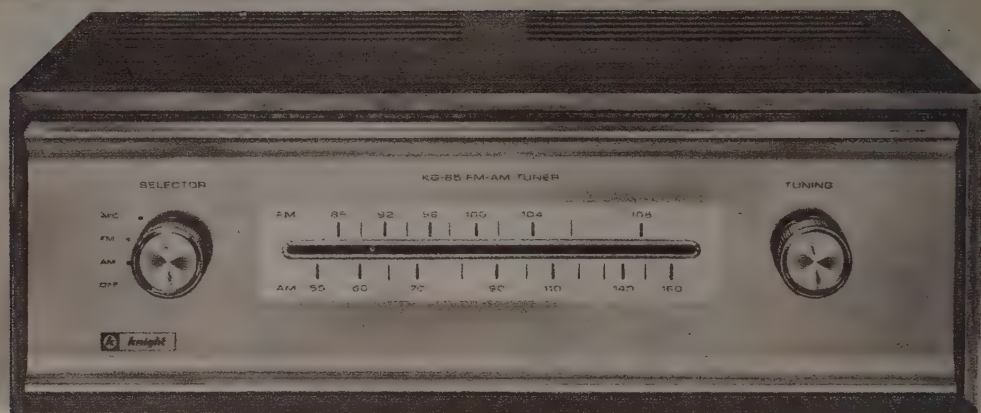
Includes all cables and plugs, Allied's System Instruction Booklet. Similar to system at left, except new Knight speaker systems in place of KN-820's. Have 8" woofer and 3 1/2" cone tweeter for 60 to 14,500 cps response. Walnut-leatherette covering, beige cane grille. Changer base in walnut. Shpg. wt., 62 lbs. Express.
22 HF 750-D. \$6 Monthly. 103.95



knight-kit

HIGH FIDELITY

Our Lowest-Cost Hi-Fi FM-AM Tuner Kit



CHECK KG-65 FEATURES:

- ✓ AFC Circuit with Defeat
- ✓ Cathode-Follower Audio Output Circuit
- ✓ Smooth Flywheel Tuning
- ✓ Multiplex Adapter Jack
- ✓ Printed Circuit Assembly
- ✓ Choice of Optional Metal or Wood Cases

SPECIFICATIONS FM SECTION

IHFH Sensitivity: 4 microvolts for 30 db of quieting.

Hum and IF Noise: 60 db below 1 v.

IF Bandwidth: 200 kc at 50% down on bandwidth curve.

Image Rejection: 60 db.

Response: 20-20,000 cps.

AM SECTION

Sensitivity: 3 microvolts for 10 db signal-to-noise ratio.

IF Bandwidth: 8 kc at 50% down on bandwidth curve.

Hum Level: 60 db down.

Image Rejection: 20 db.

Response: 20-8000 cps.

KG-65 HI-FI FM-AM TUNER KIT

\$49⁹⁵
less case

- AFC Circuit "Locks In" FM Stations
- Factory-Aligned RF and IF Coils
- Multiplex Output Jack for Stereo FM Adapter
- Compact Size—Beautiful Styling—Easy to Build

Genuine high-fidelity performance in a masterfully engineered tuner that costs far less than comparable factory-wired units. The KG-65 gives you amazingly sensitive FM and AM reception. Compare features—then compare price—it's easily the finest tuner in its class!

Among the many standout features are: AFC circuit with defeat that allows you to tune weak stations adjacent to strong ones; cathode-follower output that lets you run a long lead to your amplifier without high-frequency loss; and weighted flywheel tuning for gliding effortlessly from station to station. Multiplex output jack equips set to receive FM stereo whenever you add an adapter (see Knight-Kit KG-12 or KS-10A on opposite page).

Easy-to-build, thanks to printed-circuits. Beautiful, heavy extruded aluminum front panel. Size, 4 1/4 x 13 1/4 x 8". With all parts, wire, solder, step-by-step instructions. Less case, below. For 110-125 v., 60 cycle AC. 13 lbs.

83 YX 315-D. \$5 Monthly. **49.95**

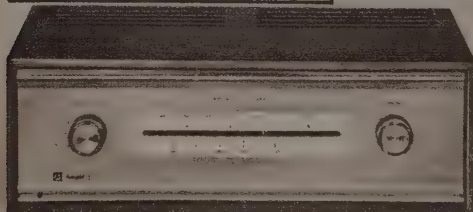
83 YX 018-D. Wood Case. Attractive walnut finish. 7 lbs. **9.95**

83 YX 019-D. Metal Case. Cordovan Gray finish. 6 lbs. **4.95**

KG-35 HI-FI FM TUNER KIT

Outstanding performance at low cost. Uses a 7-tube circuit for extra-clean FM reception. Features: printed circuit construction; AFC for "lock in" tuning; Factory aligned RF and IF transformers; effortless flywheel tuning; cathode-follower audio output; multiplex adapter output for FM stereocasts (see KG-12 or KS-10A on opposite page). IHFM Sensitivity: 4 μ v for 30 db S/N. IF Bandwidth: 200 kc @ 50% on curve. Image Rejection: 40 db. Response: 20-20,000 cps. Distortion: 0.6%. Hum: —45 db below 1 v. Output: cathode follower. Extruded aluminum panel. 4 1/4 x 13 1/4 x 8". Less case, above. For 110-125 v., 60 cycle AC. 12 lbs.

83 YX 408-D. \$5 Monthly. **35.95**



KG-35 FM Tuner Kit
(Case Optional)

\$35⁹⁵
\$5 monthly



HIGH FIDELITY REVIEWS THE KB-85

In its May 1963 issue, this famous magazine described results of its rigorous test of the KB-85. "... power bandwidth, measured at 0.5% distortion level, from 27 cps to 16 kc, with the amplifier providing 35 watts output at 1000 cps. Square-wave response was very good at low frequencies, showing a small phase shift at 50 cps ... very favorable figures. The power supply is a heavy-duty unit. ... performance with two channels should be just about as good as when only one channel is operating."

\$69⁹⁵
\$5 monthly

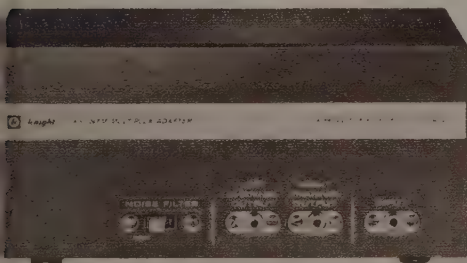
Knight-Kit Model KB-85 70-Watt Stereo Basic Amplifier Kit

A really outstanding value, the KB-85 meets critical professional requirements. Powerful 70 watt continuous sine wave output makes it ideal for use with low-efficiency speaker systems. Highlights: low-noise resistors in all critical circuitry; 35 db of negative feedback per channel for flawless sound; superior-quality output tubes; monophonic changeover switch. Uses 2 printed circuit boards for easy, accurate assembly. Chassis in chrome and black. Less cover, below. 8½x14x9". For 110-125 v., 60 cycle AC. 43 lbs.

33 YU 618-D. \$5 Monthly. **69.95**
33 YX 779-D. Metal Cover. Wt. 8 lbs. **6.50**

KB-85 SPECIFICATIONS

Output Power: 70 watts sine wave (88 watts IHFM).
Response: ±0.5 db, 15-31,000 cps at rated power.
Distortion: Harmonic, 0.25%; IM, 0.15% at rated power.
Hum and Noise: 90 db below rated output power.
Input Sensitivity: 0.54 volts for rated output power.
Output Impedances: 4, 8, 16, 32 ohms-per-channel.
Damping Factor: 17.4 to 290, stereo connected.
Controls: 2—Level; Stereo-Mono Switch; Mono Gain Balance Test Switch; Off-On; 2—Cathode Current Balance.
Tubes: 2—6X6/2Z79/6267; 2—ECC83/12AX7/7025; 4—EL-37; 2—GZ34/5AR4 rectifiers.
Power Consumption: 280 watts.

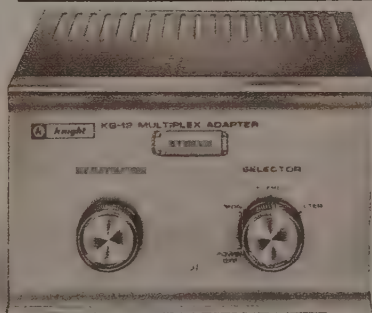


Self-Powered, May Be
Installed Out of Sight **\$16⁹⁵** new low
price

MODEL KS-10A ECONOMY STEREO MULTIPLEX ADAPTER KIT

Enjoy the wonderful new dimension of stereo FM listening at this sensational low price. The KS-10A, when connected to any wideband hi-fi FM tuner, provides sparkling stereo sound with 30 db of channel separation. Easy-to-build; detailed instructions guide your every move, show how to make tuner connections. Separation control and noise filter for pleasing stereo and better fringe-area reception. Has on-off switch—may be installed out of sight. 3 tubes. With cabinet. 3¾x8½x4". For 110-125 v., 60 cycle AC. Wt., 8 lbs.

83 Y 656-D. \$5 Monthly. **16.95**



Has Built-
In Filters
for Making
Noise-Free
Stereo Tape
Recording

\$29⁹⁵
\$5 monthly

MODEL KG-12 DELUXE STEREO MULTIPLEX ADAPTER KIT

Connect this deluxe adapter to your wideband FM tuner, and thrill to the exciting depth and full richness of stereo FM broadcasts. It's simple to build and easy to connect. Indicator lights when station is broadcasting stereo FM. Switch lets you bypass adapter for conventional FM broadcasts. Has built-in noise and tape filters. 30 db separation—adjustable by panel control. Response: ±1 db, 50-15,000 cps. Extruded aluminum panel. Cordovan gray case 4¾x6x7½". For 110-125 v., 60 cycle AC. Shpg. wt., 10 lbs.

83 YX 734-D. \$5 Monthly. **29.95**

Buy Knight-Kit Hi-Fi Components On Allied's Credit Fund Plan

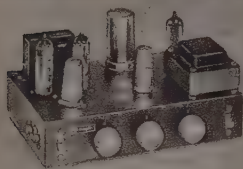
ALLIED 33



knight-kit

HIGH FIDELITY

Music Lovers Bargain! Lowest-Cost Amplifier Kit



Smart Jet Black Chassis

Optional French Gray
Perforated Metal Case,

less case
\$19⁹⁵
\$5 monthly



MODEL KM-15 ECONOMY 12-WATT HI-FI AMPLIFIER KIT

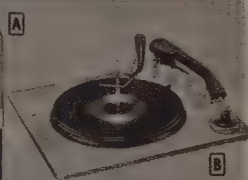
Terrific value—works with magnetic and ceramic cartridges—and only \$19.95! Use it as the center of a complete home music system, or as a second channel to convert your present system to stereo. Exceptionally compact yet quality-engineered for high-fidelity performance at far less cost than that of comparable factory-wired units. Expertly designed circuitry with EL84 tubes in push-pull output for smooth, clean response over the entire audio range. 15 db of inverse feedback contributes to its low distortion, while hum and noise are reduced to the vanishing point. Also provides tuner and phono inputs, a built-in equalized preamp for use with magnetic cartridges, plus separate bass and treble controls. Output terminals handle any popular 4, 8 and 16-ohm speaker. Supplied with all parts, tubes, wire, solder and easy-to-follow instructions. Less cover, below. Size, 5x9 1/2 x 6". For 110-125 v., 60 cycle AC. Shpg. wt., 8 lbs.

83 Y 784-D \$5 Monthly..... **19.95**

83 Y 783-D. Metal Cover for Above. French gray perforated metal with chrome trim. Shpg. wt., 2 lbs..... **3.95**

SPECIFICATIONS

Power Output: 12 watts continuous sine wave; 14 watts IHFM music power. **Response:** ± 1.5 db, 30-15,000 cps at full rated power output. **Harmonic Distortion:** 1% at full rated power. **Hum and Noise:** 65 db below full rated power (tuner input), 45 db below full rated power (phono input). **Sensitivity:** For full-power output, 1 volt at tuner input; 5 mv at phono input. **Tube Complement:** ECC83/12AX7 preamp-equalizer; ECC83/12AX7 driver and phase inverter; 2—EL84/6BQ5A push-pull out-put; EZ81/6V4/6BW4 rectifier.



ECONOMY 12-WATT MUSIC SYSTEM

- A** Knight-Kit KM-15 12-Watt Hi-Fi Amplifier Kit
- B** Admiral Ensign 4-Speed Record Changer and Cartridge with Turnover LP and 78 Needles
- C** Knight KN-809 8" High-Fidelity Speaker

Plus all cables, plugs, instructions and Allied's own system booklet. Knight-Kit KM-15 12-watt hi-fi amplifier is described above. 4-speed "Ensign" operates smoothly and quietly—shuts off automatically after last record plays. Separate needles for LP's and 78's. Knight KN-809 wide range speaker has 10-oz. ceramic magnet and hyperbolic woofer cone. Express. 28 lbs.

22 HF 794-D. \$5 Monthly..... **46.95**

73 RX 062C. Wood Base for Ensign Changer. Mahogany, limed oak or walnut (specify). 6 lbs..... **4.49**

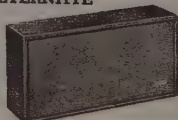
22 HF 795-D. Above, but with (D) Knight KN-2210 2-Way Hi-Fi Speaker System in Walnut Vinyl finish, in place of (C) KN-809; plus Walnut Base for Ensign Changer. 57 lbs. Shipped express. \$5 Monthly..... **59.95**



Complete System **\$46⁹⁵**

less amplifier case

ALTERNATE



knight-kit

ASSEMBLY MANUAL

Get Visual Proof of Knight-Kit Superiority

Order the Manual for the Kit You Want to Build

- Large Diagrams Show Where Every Part is Located
- "Do and Check" Method Assures Accurate Assembly
- Like Having an Expert Instructor Working at Your Side

HI-FI KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
37 K 292-D	KM-15 12-Watt Hi-Fi Amplifier	34	.25
37 K 390-D	KA-55 40-Watt Stereo Amplifier	17	.50
84 K 001-D	KG-70 Transistor Stereo Tuner	3	.50
84 K 002-D	KG-50 Stereo Tuner	9	.50
84 K 010-D	KG-320 32-Watt Trans. Stereo Amp.	13	.50
84 K 014-D	KB-85 70-Watt Stereo Basic Amp.	32	.50
84 K 016-D	KP-70 Stereo Tape Preamplifier	20	.50
84 K 023-D	KG-400 32-Watt Stereo Amplifier	14	.50
84 K 024-D	KA-95 70-Watt Stereo Amplifier	18	.50
84 K 028-D	KG-12 Deluxe Multiplex Adapter	33	.25
84 K 029-D	KG-240 20-Watt Stereo Amplifier	30	.25
84 K 040-D	KS-10A Multiplex Adapter	33	.25
84 K 042-D	KF-90 Stereo FM-AM Tuner	17	.50
84 K 053-D	KG-65 Mono FM-AM Tuner	32	.25
84 K 054-D	KG-35 Mono FM Tuner	32	.25
84 K 055-D	KG-250 20-Watt Stereo Amplifier	8	.25
84 K 057-D	KG-870 70-Watt Trans. Stereo Amp.	2	.50
84 K 059-D	KU-45A Stereo MX-FM-AM Receiver	10	1.00

CITIZENS BAND KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
84 K 006-D	C-22 Universal Transceiver	5	.50
84 K 007-D	C-22 110-VAC Transceiver	5	.50
84 K 018-D	KG-4000A Walkie-Talkie	6	.50
84 K 032-D	C-100 Walkie-Talkie	1	.25
84 K 073-D	C-555 Walkie-Talkie	Cov. 2	.25
84 K 074-D	Ten-2 Citizens Band Checker	73	.25

AMATEUR KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
38 K 296-D	100-KC Crystal Calibrator	70	.25
38 K 852-D	G-30 Grid Dip Meter	70	.25
84 K 011-D	T-60 60-Watt Transmitter	66	.50
84 K 017-D	T-150A 150-Watt Transmitter	64	.50
84 K 033-D	P-2 SWR/Power Meter	72	.25
84 K 052-D	R-100A Receiver	65	.50
84 K 056-D	LC-1 Code Practice Oscillator	71	.25
84 K 058-D	R-55A Receiver	67	.50

TEST EQUIPMENT KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
38 K 099-D	Scope Voltage Calibrator	49	.25
38 K 147-D	Resistance Substitution Box	49	.25
38 K 148-D	Capacitance Substitution Box	49	.25
38 K 168-D	20,000 Ohms/Volt VOM	39	.25
38 K 169-D	Audio Generator	48	.25
38 K 183-D	1000 Ohms/Volt VOM	39	.25
38 K 196-D	Sweep Generator	47	.50
38 K 199-D	Transistor/Diode Checker	49	.25
38 K 884-D	Pocket Size VOM	40	.25
38 K 928-D	Flyback and Yoke Checker	48	.25
84 K 008-D	KG-2000 DC to 5 Mc Oscilloscope	44	1.00
84 K 021-D	KG-636 DC to 15 Mc Oscilloscope	45	1.00
84 K 034-D	400A Economy Tube Tester	40	.25
84 K 045-D	High Gain Preamp for KG-636	45	1.00
84 K 046-D	Dual Trace Preamp for KG-636	45	1.00
84 K 060-D	KG-600B Tube Tester	41	.50
84 K 061-D	KG-660 6V-12V Battery Eliminator	42	.25
84 K 062-D	KG-620 VTVM	38	.25
84 K 065-D	KG-630 5" Wideband Oscilloscope	43	.50
84 K 066-D	KG-670 Res./Cap. Checker	48	.25
84 K 067-D	KG-650 RF Signal Generator	46	.25
84 K 068-D	KG-680 In-Circuit Cap. Checker	49	.25
84 K 069-D	KG-690 Hi-Gain Signal Tracer	47	.25

HOBBY KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
37 K 289-D	12-in-1 Electronic Lab	60	.25
37 K 290-D	Ranger III Table Radio	55	.25
37 K 293-D	Ranger Clock Radio	55	.25
38 K 297-D	Radio Broadcaster/Amplifier	54	.25
38 K 953-D	12-Volt Ammeter-Voltmeter	62	.25
38 K 895-D	Transistor Portable Radio	56	.25
38 K 934-D	Photoelectric Relay	54	.25
84 K 035-D	21-in-1 Electronic Lab	59	.25
84 K 038-D	Transistorized Tachometer	62	.25
84 K 047-D	100-in-1 Electronic Lab	61	.50

SHORTWAVE RECEIVER KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
38 K 161-D	6-Band Ocean Hopper	53	.25
38 K 187-D	2-Band Space Spanner	53	.25
38 K 298-D	4-Band Span Master	52	.25
84 K 031-D	5-Band Span Roamer	7	.25

INTERCOM KIT MANUALS

Stock No.	Description	Kit on Pg.	E.A.
38 K 197-D	Economy 2-Station Intercom	57	.25
84 K 025-D	Trans. Wireless Intercom	58	.25
84 K 030-D	KG-3000 6-Station Intercom Master	56	.25

Tool Kits Specially Selected for Knight-Kit Building

A KNIGHT-KIT 6-PIECE TOOL KIT. Selected kit, containing everything necessary to easily build your Knight-Kit. Features the Wall 14T 40-watt pencil-type soldering iron; Knight 5" diagonal cutters; Knight 6" long-nose pliers; Knight 1/4x4" and 1/4x6" screwdrivers—all in a seamless, all-metal tool box with snap-catch and lock provision. Wt., 6 lbs.

83 YX 061-D.....10.95

B KNIGHT-KIT DELUXE 9-PIECE TOOL KIT. An outstanding selection of tools, chosen for quality and utility. Includes: Wen 199K soldering gun kit in its own metal case; Knight 5" diagonal cutters; Knight 6" long-nose pliers; Knight 1/4" and 3/8" hex nut-drivers; Knight 3/32x3" screwdriver with pocket clip and 3/16x6" screwdriver; Ungar 40-watt pencil-type soldering iron; and a deluxe 3-tray, seamless, all-metal tool box. 11 lbs.

83 YX 063-D.....15.95



6-PIECE KIT \$10.95

DELUXE 9-PIECE KIT \$15.95

Knight-Kit Instruction Manuals Make Kit Building a Snap

ALLIED 35

knight-kits® Are Your Best Buy..

QUALITY-DESIGNED TO BE BEST for Buildability, Performance and Value by
Knight Electronics, manufacturing subsidiary of ALLIED RADIO.

knight electronics

FIRST

in research and experience

FIRST

in newest design

FIRST

in dependability

FIRST

in money-saving value

from drawing board to finished kit...

DESIGNED TO BE BEST

In this spacious, ultra-modern plant in Maywood, Illinois, experts in every phase of kit design and manufacture dedicate themselves to providing you with the best electronic equipment in easy-to-build kit form. They draw on the finest materials, modern engineering techniques and most important—over 40 years of experience in the electronic kit field.



Build and Enjoy the Best . . . Nothing compares to the gratifying feeling of accomplishment you derive from building a Knight-Kit. First choice among discriminating kit builders throughout the world, Knight-Kits give you performance equal to or better than factory-wired units costing much more. You get newest features, premium-quality parts, and clearly written, easy-to-follow instruction manuals—and every kit comes to you in perfect order, ready for quick and easy assembly.



From its inception, and continuing through its production every Knight-Kit undergoes rigid quality control, based on procedures established by the United States Government

Backed by this EXCLUSIVE Allied Guarantee

you can buy and
build any
KNIGHT-KIT
with complete
confidence.
This exclusive
Allied guarantee
means exactly
what it says!

Guarantee

Buy any Knight-Kit. Build it.
Operate it. You must be satisfied or we refund your money.

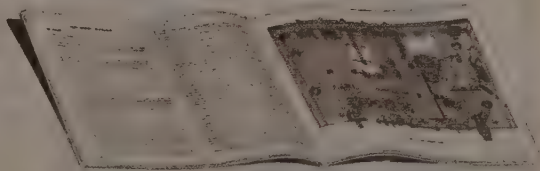
—ALLIED RADIO

It's Easy to Build a *knight-kit* ... Anyone Can Do It!

EVEN THE SMALLEST DETAILS HAVE BEEN CAREFULLY TAKEN CARE OF



*these special Knight-Kit features make you
a kit-building expert the very first time ...*



Famous "Step-by-Step" instruction manuals, prepared by a skilled staff of writers and illustrators, take the guesswork out of building. Each assembly step is in everyday English. Extra-large photos and diagrams help you whiz through assembly as you would with an instructor at your side.

Millions of hobbyists, hi-fi enthusiasts, Hams, technicians and servicemen have experienced the fun of assembling a Knight-Kit. You can, too—because we make it so easy for you. Even if you've never built anything before, you can build a perfect Knight-Kit.

IMPORTANT EXTRAS

One-Year Parts Warranty

Only the finest quality parts are used in Knight-Kits. Every part is fully warranted against defects in material or workmanship for a period of 1 year.

Consulting Service

We're happy to answer your questions—either before you select your kit or after it is completed. We'll also check your assembled kit for a nominal charge.

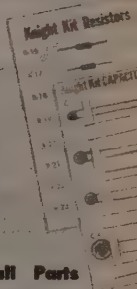
Pre-Cut Wire

No measuring and no untangling. All wire is cut to the length required and stripped—ready for instant use. As an added convenience, all sizes are color-coded.



Carded Components

Resistors, diodes and small capacitors are given an identifying number and mounted on cards. You just remove the part listed by number in the manual.



See-Through Packages For Small Parts

You see right through the clear plastic bags in which all small parts and hardware are packed—speeds assembly by eliminating searching. Parts are pre-sorted for you, too.



Dollar for Dollar You Can't Beat a Knight-Kit!



knight-kit

TEST EQUIPMENT



Includes Test Leads, Test Prods and Battery for Ohmmeter Ranges



SPECIFICATIONS

DC VOLTMETER

Ranges: 0-1.5-5-15-50-150-500-1500 volts full scale. When used with optional High-Voltage Probe, reads to 50,000 volts. Input Resistance: 11 megohms (1 meg in probe) to 1500 v. Accuracy: $\pm 3\%$ of full scale reading.

AC VOLTMETER

RMS Ranges: 0-1.5-5-15-50-150-500-1500 volts full scale. Peak-to-Peak Ranges: 0-4.2-14-42-140-420-1400-4200 volts. Decibels: -10 to +65 in 7 ranges. Frequency Response: 30 cps to 3 mc, ± 1 db; 30 cps to 5 mc, ± 3 db. When used with optional High-Frequency Probe, AC operating range is extended to 250 megacycles. Accuracy: $\pm 5\%$ of full scale reading.

OHMMETER

Ranges: 0-1000-10,000-100,000 ohms; 0-1-10-100-1000 meg. Center Scales: 10, 100, 1000, 10,000, 100,000 ohms; 1, 10 megohms.

Battery: 1 1/2 volt, size "C."

TUBE COMPLEMENT

Meter Bridge: 12AU7A. Full-Wave Rectifier: 6AL5. Power Supply: Transformer Operated; Selenium Rectifier.

Economical KG-620 Electronic VTVM Kit

with leads

new
low
price

\$24⁹⁵

Was \$26.95

- ✓ 11-Megohm Input Resistance Minimizes Loading Effect on Circuit Under Test
- ✓ Precision 1% Resistors for True Readings
- ✓ 200-Microamp Meter Movement—Large, 4 1/2" Two Color Scale Is Easy to Read
- ✓ Provision for Easy External Calibration
- ✓ Low-Leakage Switches and Finest Grade Copper-Etched Printed Circuit Board
- ✓ Zero-Center Scale for Discriminator Alignment; Direct Reading db Scale
- ✓ DC Polarity Reversing Switch
- ✓ 1.5 V. Scale for Transistor Servicing
- ✓ Pilot Light

Provides entirely electronic, direct-reading measurement of AC voltage (both Peak-to-Peak and RMS), DC voltage, decibels, and resistance on a highly legible two-color 4 1/2" full-view meter. Invaluable for signal tracing, alignment, voltage and resistance readings in AM/FM radios, TV sets and hi-fi components, checking audio frequency response, CB and Amateur equipment, and for servicing electrical devices.

Circuitry features: push-pull balanced-bridge for maximum accuracy and meter protection; highly sensitive DC amplifier to allow resistance measurements as high as 1000 megohms using only the 1 1/2-volt battery—eliminating danger to delicate apparatus under test; and a single zero-adjustment control for all functions and ranges. Uses power transformer for line isolation.

Heavy-gauge steel case is charcoal gray and silver. 7 5/8 x 5 3/8 x 4 1/4". For 110-125 v., 60 cycle AC. 7 lbs.

83 Y 911-D. \$5 Monthly	24.95
83 Y 576-D. Above, factory assembled	39.95
83 Y 126-D. High-Voltage Probe Kit. 1 lb.	4.50
83 Y 127-D. High-Frequency Probe Kit. 1 lb.	3.50

YOU CAN BUILD A KNIGHT-KIT VTVM—HERE'S WHY:



Wiring and soldering are greatly simplified—assembly is reduced to a minimum. The entire chassis is a printed circuit board—copper etched on 1/2" laminated phenolic. Just plug in the component leads and solder. Step-by-step instructions and large-size wiring diagrams guide your every move—it's almost like having an instructor at your side!

Budget-Priced VOM Kit

1000 OHMS/VOLT SENSITIVITY

16⁹⁵

with leads

- 8 Scales; 38 Ranges
- 2-Color, 4 1/2" Full-View Meter
- 1% Precision Resistors
- Measures AC/DC Current

There's an outstanding value VOM that has 1000 ohms-per-volt sensitivity on both AC and DC. 38 ranges cover most general-type measurements. Use it for AC and DC voltage, current, and resistance readings in TV and hi-fi sets, radios, appliances, audio equipment, and hobby work. Features precision 1% film-type resistors that provide high accuracy and day-in and day-out dependability. Assembles and is ready for use in a matter of hours. Detailed manual has "how-to-use" section. Black bakelite case with carrying strap. With battery and test leads. 6 3/4 x 5 1/4 x 2 3/4". 3 lbs.

3 Y 128-D.....16.95

3 Y 429-D. Above kit, but with 5% tolerance resistors in place of 1% values. Shpg. wt., 3 lbs.14.95

SPECIFICATIONS

AC, DC, and Output Volts: 0-1-5-10-50-100-500-5000 volts.
Resistance Ranges: 0-1000-100,000 ohms; 0-1 megohm. Center scales at 60, 150 and 1500 ohms.
Current: 0-1-10-100 milliamperes; 0-1 amp AC or DC.
Decibels: -20 to +69 in 6 ranges.
Meter Sensitivity: 400 microamps full scale.
Accuracy: 2% of full scale reading.



Includes Test Leads, Test Prods and Battery for Resistance Ranges

Highly Accurate VOM Kit

20,000 OHMS/VOLT SENSITIVITY

29⁹⁵

with leads

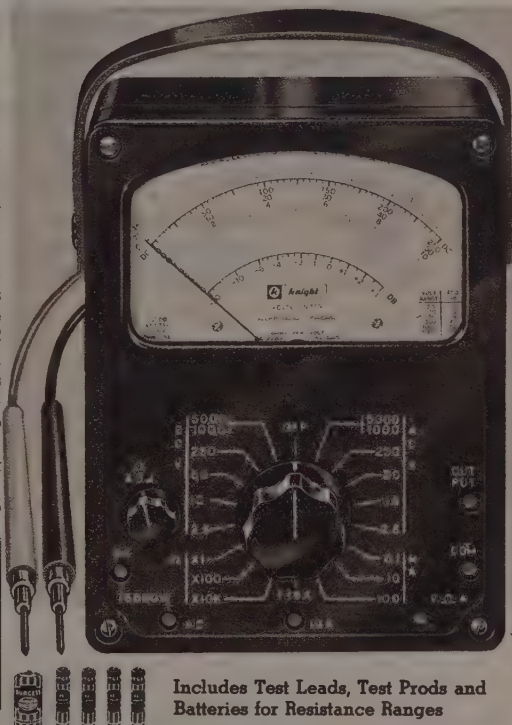
- 9 Scales; 32 Ranges; 1% Resistors
- Single Range/Function Switch
- 2-Color, 4 1/2" 50-Microamp Meter
- Low Circuit Loading Design

You get the most for your money—outstanding quality and performance—with this time-tested, carefully engineered VOM. Use it for any application where accurate measurement of voltage, current or electrical continuity is needed. 50-microamp meter sensitivity provides 20,000 ohms-per-volt input resistance on DC to assure true readings and minimize circuit loading. For AC voltage tests, input resistance is 5000 ohms-per-volt. All multipliers are 1% precision resistors; deluxe meter has an easy-to-read, 2-color 4 1/2" scale. Uses a single Range/function switch for utmost operating convenience to cover the full 32 ranges. Professional-styled black bakelite case with carrying strap. With batteries and test leads. Size, 6 3/4 x 5 1/4 x 2 3/4". Shpg. wt., 4 lbs.

3 Y 140-D. \$5 Monthly.....29.95

SPECIFICATIONS

AC, DC, and Output Volts: 0-2.5-10-50-250-1000-5000 volts.
Resistance Ranges: 0-2000-200,000 ohms; 0-20 megohms. Center scales at 12, 1200, and 120,000 ohms.
DC Current: 0-0.1-10-100 milliamperes; 0-1-10 amps.
Decibels: -30 to +63 in 6 ranges.
Meter Sensitivity: 50 microamps full scale.
Accuracy: 2% of full scale reading.



Includes Test Leads, Test Prods and Batteries for Resistance Ranges



knight-kit
TEST INSTRUMENTS



Low-Cost Pocket VOM Kit

1000 OHMS/VOLT SENSITIVITY

Complete

\$8⁹⁵

with leads, battery



The choice of hobbyists, experimenters, and in-the-home servicemen—anyone who needs a really compact VOM at extremely low cost. Easy to assemble—finds defects in radios, TV sets, home appliances, automotive accessories and electrical devices. Large $2\frac{1}{2}$ " 2-color meter reads 13 ranges easily and quickly. Hardly larger than a pack of cigarettes, take it anywhere you go—it's powered by an internal battery. Uses 5% tolerance multipliers and shunts. Front-panel zero adjustment. Bakelite case has input jacks pre-installed. $4\frac{1}{2} \times 2\frac{1}{8}$ ". Supplied with test leads, battery and instructions. Shpg. wt., 2 lbs.

83 Y 708-D 8.95

SPECIFICATIONS

DC Ranges: 0.5-15-50-150-500 volts; 0.1-10-100 milliamperes. AC Ranges: 0.15-50-150-500 volts. Resistance: 0-30,000 ohms, 1200 ohms center scale. Input Resistance: 1000 ohms per volt on DC ranges. Meter Sensitivity: 1 milliamperes full scale. Battery: $1\frac{1}{2}$ -volt, Type 7.

400A Tube Checker Kit—Value Plus Performance

CHECKS MORE THAN 1600 TUBES

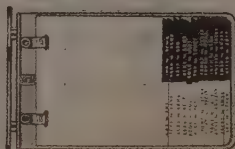
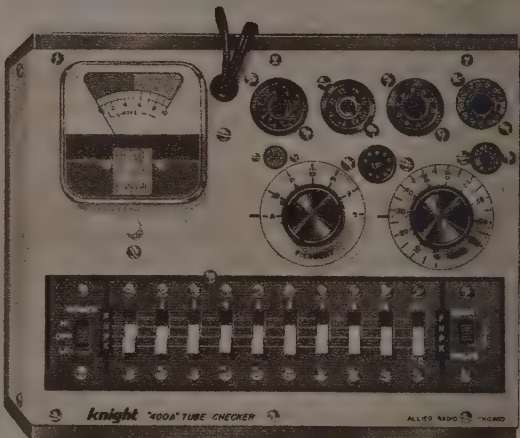
\$19⁹⁵

\$5 monthly

Tests nuvistors, novars, compactrons, 10-pins, octal, loktal, plus 7 and 9-pin miniatures

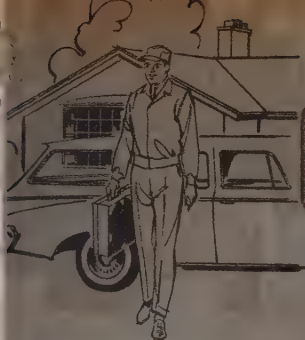
Easy-to-build tube checker offered at a price so low that no hobbyist, part-time radio/TV serviceman, or experimenter can afford to be without one! Features a genuine emission-testing circuit that tests over 1600 tubes, filament continuity plus shorted elements on an element by element basis. Tests compactrons, nuvistors, novars, 10-pins, octal, loktal, 7 and 9-pin miniatures. Two-color meter scale clearly shows good or bad condition. For safety, uses a true, two-winding transformer for full isolation from power line. A handy slide-out drawer holds "flip-card" tube chart. Selector switch circuit prevents obsolescence. Gray case, beige panel. Easy to assemble with instructions and giant-size diagrams. $3\frac{1}{2} \times 9\frac{1}{2} \times 8$ ". For 110-125 v., 60 cycle AC. Wt., 8 lbs.

83 Y 625-D. \$5 Monthly 19.95



"FLIP-CARD" TUBE-CHART

Handy slide-out drawer holds cards. Has index tabs for fast location of types.

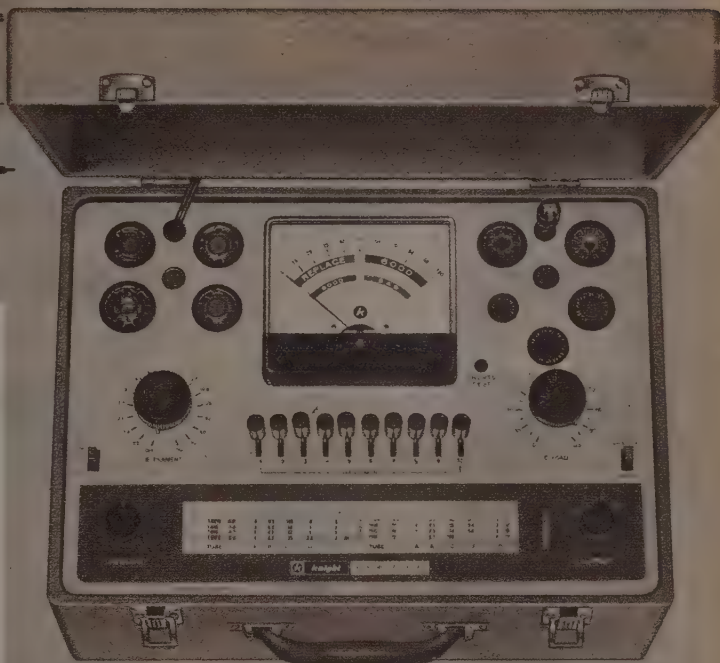


Our Finest Emission-Type Tube Tester

Perfect for In-Home Servicing—
Weighs Just 11 lbs.!

SPECIFICATIONS

- **Type of Tube Tester:** Cathode con-
ductance (emission) • **Tube Condition**
Indicator: 4½" meter with both
English and numerical scales • **Tube**
Types That May Be Tested: Nuvisors,
novars, compectrons, 4, 5, 6, and
7-pin large, 7, 9, 10-pin miniatures,
octals, loktals, plus pilot lamps
- **Individual Element Tests:** Short
and continuity (neon lamp indicator),
open (meter indicator), gas (meter)
- **Filament Voltages Available:** 0.63,
1.4, 2.0, 2.5, 3.0, 4.2, 5.0, 6.3, 7.5,
12.6, 19.6, 25, 32, 50, 70, 117 • **Line**
Voltage Adjustments: Power rheo-
stat in primary of transformer • **Indi-**
vidual Tube Settings: Read from
built-in and illuminated gear-driven
roll chart with thumbwheel



Portable Model Has Latching Cover

knight-kit Model 600B Tube Tester Kit

Portable Kit

\$39⁹⁵

\$5 monthly

RELIABLY CHECKS OVER 1800 POPULAR TUBE TYPES

- Checks for Tube Quality, Continuity, Shorts, Open Elements and Gas
- Obsolete-Proof Design—Quick Set Up for Any New Tube Types Released
- Multi-Colored, Easy-to-Read "GOOD-?-REPLACE" and Numerical Scales

Check all the latest tube types with this accurate and highly dependable tube tester. With this professionally designed unit on your bench, you can test over 1800 types including nuvisors, compactrons, novars, 4, 5, 6, and 7-pin large, 7, 9, and 10-pin miniatures, octals, loktals, and pilot lamps.

Cathode emission accurately determines tube value. A neon indicator shows filament continuity and leakage or shorts between tube elements. Extra-large, meter shows tube condition by a three-color "GOOD-?-REPLACE" scale. 0 to 100 scale for matching tubes. 16 filament voltages from 0.63 to 117 volts may be selected.

Obsolete-proof design, too. The universal-type reactor switches used in the 600B, permit setting up for any future tube-type—without major circuit revisions or rewiring. Cathode ray tubes can be checked using optional TV Picture Tube Harness and Adapters, at right. A special line-adjust circuit maintains proper testing conditions at all times.

Illuminated roll chart has a smooth-action thumbwheel drive. Gray wood case with handle; restyled charcoal gray and silver panel. Size, 6½x14½x10½". For 110-125 v., 50-60 cycle AC. Wt., 17 lbs.

83 YX 920-D. \$5 Monthly. 39.95

83 YX 578-D. As above, but factory assembled. 53.95

600B BENCH AND COUNTER TUBE TESTER KIT

Same outstanding features as the portable model above, except tester is housed in a black finish sturdy steel case. Size, 5¼x14½x10½". Wt., 19 lbs.

83 YX 951-D. \$5 Monthly. 35.95

83 YX 579-D. As above, but factory assembled. 49.95

ACCESSORIES

83 Y 141-D. TV Picture Tube Harness. For checking picture tubes up to 90° with the 600B. Wt., 8 oz. 4.50

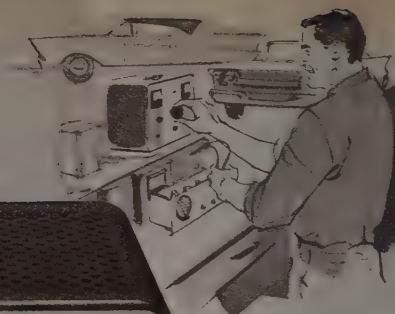
83 Y 271-D. 110° Adapters. Set of two, for TV harness above. Checks 110° picture tubes. Shpg. wt., 2 oz. 3.04

Build the Best—Save the Most—Build Knight-Kits

ALLIED 41



knight-kit
TEST INSTRUMENTS



**Ideal for
Transistor
Servicing**

**FOR
CB, MARINE,
AVIATION,
AMATEUR, AND
MOBILE GEAR**

Was \$38.95

**New Low
Price**

\$35⁹⁵

\$5 monthly

KG-660 Battery Eliminator/Charger Kit

WELL-FILTERED FOR TRANSISTOR SERVICING

- Current Capacity—15 Amps at 6 Volts, 7½ Amps at 12 Volts—Continuous
- DC Voltage Continuously Variable—Two Ranges, 0 to 8; 0 to 15 Volts
- Silicon Diode Rectifiers; Efficient 17,000 Mfd Industrial Filter
- Transformer Primary Fused—Automatic Thermal Cutout in Secondary

Important addition to any service or lab bench requiring power for 6 and 12-volt equipment. The KG-660's voltage is continually variable from 0 to 15 volts, and it has the necessary filtering needed for today's all-transistor, transistor and vacuum tube "hybrid", and all-vacuum tube circuitry. Rugged, conservatively rated components mean long, reliable service. It's fused and equipped with an automatic overload control for maximum protection at all times. Tests battery-operated transmitters, amplifiers, marine and aircraft receivers, Citizens Band transceivers, and auto radios. Runs many small electrical devices: solenoids, relays, motors etc. Checks most equipment 20% below and 25% above nominal voltage—locates defective vibrators and other components that might cause intermittent operation. Black metal case, 9x12x5". Charcoal-gray-and-silver front panel. For 105-125 v., 60 cycle AC. Shpg. wt., 14 lbs.

83 YX 912-D. \$5 Monthly..... **35.95**
83 YX 573-D. Factory Assembled. Was \$47.95..... **44.95**

SPECIFICATIONS

Continuous Ratings: 15 amps at 6 volts; 7½ amps at 12 volts.
Intermittent Ratings: 20 amps at 6 volts; 10 amps at 12 volts.
Variable Voltage Ranges: 0 to 8 volts; 0 to 15 volts.
Operating Voltage: From 105 to 125 volts, 60 cycle AC.
Power Consumption at Full Output: 220 watts maximum.
Protection: Transformer primary, 20 amp, Slo-Blo fuse. Secondary has automatic 20 amp thermal cutout with 10 second delay.
Binding Posts: Color coded, extra heavy duty type. Accept up to a 1/2" gauge wire size.
Rectifier: Alternator-type silicon diodes for minimum heat and increased efficiency.
Filtering: 17,000 mfd industrial grade filter for minimum ripple.
Meters: 0-15 v.; 0-20 amps. Direct reading automotive types.
Pilot Light: #47 bulb.
Line Cord: 16-gauge heavy-duty.
Carrying Weight: 10 lbs., 10 oz.
Size: 9x12x5". Knobs extend 1".

Wide Band — High Sensitivity — And Low Cost



**BEST VALUE FOR BOTH
COLOR AND BLACK-AND-
WHITE TV SERVICING...**

\$74⁹⁵ with
leads

\$5 monthly

SPECIFICATIONS

Vertical Sensitivity: 20 Milli-volts (RMS) per inch.

Vertical Response: ± 3 db, 5 cps to 5 mc; only 1 db down at 3.58 mc color burst frequency.

Vertical Input Impedance: with X1 sensitivity—2.9 megohms and 21 mmf; with X0.1 and X0.01 sensitivity—3.4 megohms and 12 mmf.

Horizontal Sensitivity: 600 millivolts (RMS) per inch.

Horizontal Response: down only 3 db at 600 kc; down only 4 db at 1 mc. Locks in up to 9 mc.

Sweep Generator Range: 15 cps to 600 kc.

Sweep Generator Synchronization: internal positive, internal negative, external and line frequency.

Power Supplies: low voltage has 6X4 rectifier and 6C4 regulator. High voltage supply has 1V2 rectifier producing approximately 1400 volts to CRT for high intensity trace.

Voltage Calibrator: 1 volt peak-to-peak at front panel.

Cathode Ray Tube: SUP1.

KG-630 5" WIDE BAND OSCILLOSCOPE KIT

Wide Response— ± 3 db, 5 cps to 5 megacycles—Excellent for Color frequency Compensated Input Attenuator; 1-Volt P-P Calibrator positive and Negative Locking Sync • Camera Mounting Studs

Make your service work easier and faster—increase profits—build the Knight-Kit Scope! Has the sweep range, response and sensitivity needed today's complex equipment—meets virtually every need of the technician, researcher and hobbyist alike. An excellent choice for color as well as black and white TV work. Has: push-pull vertical and horizontal amplifiers with cathode-follower inputs; 1400 volts second anode potential; positive and negative sync; 1-volt P-P calibrator; retrace blanking, Z-axis cut. Uses 2 printed circuit boards and laced wiring harness. Black metal case, 14 $\frac{1}{4}$ "x10 $\frac{1}{8}$ "x15 $\frac{1}{2}$ ". Charcoal gray and silver front panel. 110-125 v., 60 cycle AC. 32 lbs.

KU 913-D. \$5 Monthly. 74.95

KU 577-D. Factory Assembled \$6 Monthly. 109.95

Y 147-D. Low-Capacity Probe Kit. Wt., $\frac{1}{2}$ lb. 3.75

Y 148-D. RF Demodulator Probe Kit. Wt., $\frac{1}{2}$ lb. 3.75

Y 136-D. Voltage Calibrator Kit. Wt., 5 lbs. 12.95

TOP-VALUE PACKAGE Scope and All Accessories



\$85⁹⁵

A special value package for you! Includes most needed items for oscilloscope servicing. You get: Knight-Kit KG-630 5" Wide Band Oscilloscope Kit; 12-Mmf Low-Capacity Probe Kit; 250-Mc RF Demodulator Probe Kit; Two Howard W. Sams Booklets—*Know Your Oscilloscope* and *Trouble-Shooting with the Oscilloscope*. Wt., 34 lbs.

23 YU 637-2D. \$5 Monthly. 85.95

Build It Yourself and Save with Knight-Kits



knight-kit
TEST INSTRUMENTS



SPECIFICATIONS

Vertical Bandwidth on DC: DC to 5 mc, 3 db down. Reference to 1 kc, with vertical display height of 6 cm. (.05 v/cm to 20 v/cm).
Vertical Bandwidth on AC: With AC preamp in .005, .01 and .02 v/cm ranges, 5 cps to 1.5 mc, 3 db down. Reference to 1 kc, with vertical display height of 6 cm. On ranges from .05 to 20 v/cm, AC frequency response is 5 cps to 5 mc, 3 db down. **Rise Time:** 85 nsec, vertical display height of 6 cm or less. **Sensitivity:** DC coupled, .05 v P-P/cm. AC coupled, .005 v P-P/cm. $\pm 5\%$ at front panel. **Horizontal Bandwidth:** DC to 500 kc within 3 db down. **Sensitivity:** Approx. .15 v/cm. Has variable attenuator. **Input Impedance:** 1 meg. **Sweep Range:** .05 sec/cm to 200 nsec/cm in 16 ranges by use of basic sweep ranges (10 millise, 1 millise, 100 microsec, 10 microsec, 1 microsec) and horiz. sweep plus X5 expansion. 10:1 multiplier vernier control; Multiplier switch. Provision for adding external capacitor for very slow sweeps. **Sweep timing accuracy** capability within 3%. **Triggering:** Sensitivity, 200 mv external; $\frac{1}{2}$ cm deflection internal. Inputs: line, external AC and DC, internal AC and DC. Level adjustable to provide triggering at selected points on waveform, or preset.

KG-2000 DC to 5 Mc Laboratory Oscilloscope Kit

SKILLFULLY ENGINEERED...HIGHEST ACCURACY...PERFORMANCE-PROVEN

\$195⁰⁰

\$10 monthly

- 85 Nanoseconds Rise Time
- Vertical Off-Scale Indicators
- Horizontal Response: DC to 500 KC

- Regulated High and Low Voltage Power Supplies
- DC-Coupled Vertical and Horizontal Amplifiers
- Triggered-Sweep—200 Nsec/CM Down to .05 Sec.

Meeting stringent requirements of space-age instrumentation, the Knight-Kit KG-2000 handles virtually every need in laboratory or service shop. A vast number of engineers, technicians and servicemen have found that this professional instrument offers performance previously available only at a far higher price. Excellent for viewing pulses of fast rise time or for work where very low frequencies or DC levels must be displayed. Preset lock-in of the signal eliminates the need to synchronize the sweep with input signals of various amplitudes or frequencies. Preset may be disabled; a separate control permits locking in on any portion of a signal, including a choice of positive or negative slope. Has: standard

camera mounting studs; low-loss BNC connectors; adjustable graticule illumination; color-correlated controls that are grouped by function for fast, accurate use; flat-face 5" CRT with P2 phosphor; scale calibration (vertical) from +6 to -9 db and x and y linear grid. Circuitry has: triggered sweep; regulated power supplies; shunt-series peaking and frequency compensated attenuators. 175 watts. 21 tubes, plus CRT and 7 diodes. Instructions. $14\frac{1}{4} \times 10\frac{1}{2} \times 15\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

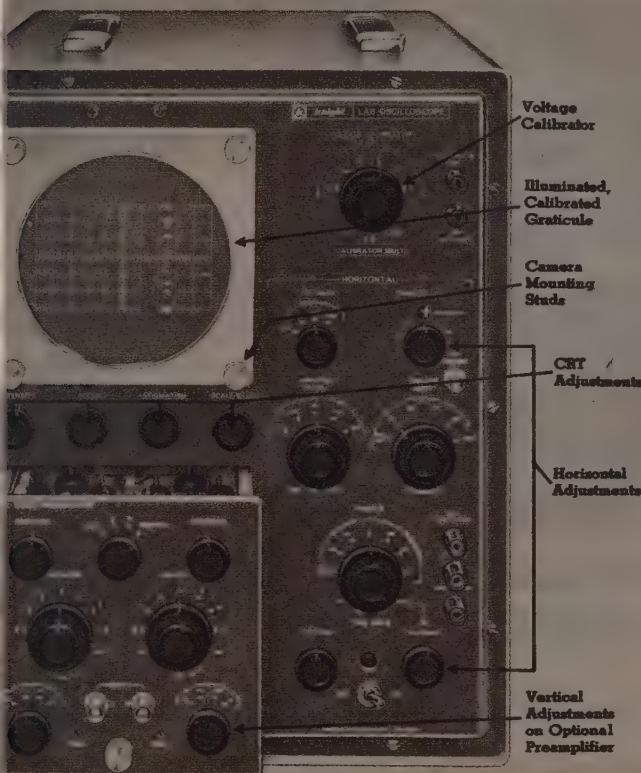
83 YU 910-D. \$10 Monthly..... 195.00

83 YZ 575-D. Factory Assembled. Shpd. Exp..... 295.00

83 Y 949-D. Wired Low-Cap Probe. 1 lb..... 20.00

G-636 DC-to 15 Mc Laboratory Oscilloscope Kit

KNIGHT-KIT'S FINEST—INTERCHANGEABLE VERTICAL PREAMPLIFIERS



SPECIFICATIONS

Vertical Bandwidth: With Dual-Trace Preamp, DC to 15 mc, 3 db down. Reference to 50 kc, with 6 cm vertical deflection. **Rise Time:** 30 nsec, with 6 cm vertical deflection. **Sensitivity:** 50 mv/cm to 20 v/cm. **Input Impedance:** 1 meg shunted by 40 mmf. **Horizontal Bandwidth:** DC to 2.5 mc, within 3 db down. **Calibrated Sweep Range:** 0.5 sec/cm to 50 nsec/cm in 30 ranges by use of basic sweep ranges (100 msec, 10 msec, 1 msec; 100 microsec, 10 microsec, 1 microsec) and amplifier gain (X1, X5, and X20); also horizontal sweep 10:1 multiplier vernier control. Provision for external capacitor for very slow sweeps. **Sensitivity:** Approx. 0.1 v/cm and 1 v/cm. 10:1 attenuator. **Gain control.** **Time Marks:** Intensity modulated at 10 microsec, 100 microsec, and 1000 microsec intervals—at front panel. Adjustable sweep timing accuracy to 1%. **Triggering:** Sensitivity, 100 mv external; 2 mm deflection internal. **Inputs:** Line, Internal and External AC or DC and Preset. **Level:** Adjustable for triggering at selected waveform points. **Voltage Calibrator:** 1 kc square wave, 10 mv to 50 v., peak-peak $\pm 1\%$, in 12 steps. Available at front panel. **Low-Voltage Supply:** -150, +100, +250, and +420 v. regulated. **High-Voltage:** -1750 and +3500 v., regulated. **Tubes:** 38 (excluding preamps) plus P-2 post-accelerator CRT and 15 diodes. **Power Consumption:** Using Dual-Trace Preamp, 400 watts.

445⁰⁰

ess preamps

- DC-Coupled Triggered Sweep; DC-Coupled Amplifiers; Regulated Power Supplies
- 30 Nanoseconds Rise Time; Up to X20 Expansion
- 1% Sweep Timing Accuracy With Built-In Markers
- Preamps for Dual-Trace or Differential/High-Gain

new version of our superb 10 mc DC Lab Scope with extended vertical response is an even greater value than ever before. Accuracy, reliability and versatility, plus ingenious modular construction for rapid and efficient assembly, make it highly desirable for use in electronics, physics, medicine, industry and education. Trigger and amplifier circuits are DC coupled for use where very low frequencies or DC levels must be displayed. Push-pull amplifiers and electronic power supply regulation assure top stability. CRT deflection plate connections are brought out through the glass—eliminates socket capacity and reduces drive—gives wide frequency response. Optional plug-in preamps are listed, at right. Cooling system assures long component life and continuous duty operation. 16 $\frac{1}{2}$ x12 $\frac{1}{2}$ x21 $\frac{1}{8}$ ". For 105-130 lbs, 60 cycle AC. Wt., 93 lbs. Shipped express.

YZ 998-D. \$20 Monthly. 445.00
YZ 572-D. Factory-Assembled Pkg. Includes Wired DC Lab Scope, Dual-Trace Preamp, and Low-Cap Probe. 109 lbs. Express. 795.00
YU 677-D. Mobile Transport Cart. Steel frame. 32 lbs. 39.95

DUAL-TRACE PREAMP KIT

Gives independent or simultaneous wave-form presentation of each channel. Dual step-type attenuators with vernier for P-P measurements. .05 v/cm to 20 v/cm. 11 lbs.

83 YZ 948-D. Express. 90.00
83 Y 977-D. Blank Preamp Chassis. Has panel and knobs. 3 lbs. . . . 7.95
83 Y 949-D. Wired Low-Capacity Probe. Wt., 1 lb. 20.00

DIFFERENTIAL PREAMP KIT

Cancels unwanted or interfering signals. 5000:1 rejection for common mode signals. As high gain preamp, responds to as low as 1 mv signal. DC to 100 kc response. Calibrated, 1 mv/cm to 50 v/cm in 15 steps. (variable). Wt., 10 lbs.

83 YZ 946-D Express. 70.00
83 YZ 584-D. Assembled. . . . 100.00

Knight-Kit Lab Oscilloscopes Meet or Exceed Industry Standards

ALLIED 45



knight-kit
TEST INSTRUMENTS



**WIDE VARIETY
OF USES!**

TV Marker Generator
RF Alignment
IF Strip Alignment
Oscillator Alignment
Signal Tracing Circuit
Fixed-Frequency
Audio Generator
Testing Small Speakers
Checking Video Stages
Meter Calibration
AM, FM, TV Servicing
—And More

Pace-Setting KG-650 RF Signal Generator Kit

with test leads

\$22⁹⁵

\$5 monthly

- Fundamental Frequency Range of 160 kc to 112 mc—Calibrated Harmonics to 224 mc
- Uses Precision Wound Coils in a Colpitts Circuit—Requires No Calibration
- Three Outputs: Modulated and Unmodulated RF; 400 cps Audio Sine Wave
- Provision for External Modulation Sources; Cathode Follower Outputs
- Transformer-Operated Power Supply for Reliable Service and Safety

TV, AM and FM alignment becomes a snap with this wide-range, extremely stable RF signal generator kit! Easy to build and comparable to far more costly factory assembled generators, the KG-650 can be a real time and labor-saving trouble-shooter for you. Its wide fundamental output is divided into five separate bands for quick and precise selection of the desired range. A large, clearly calibrated dial, with vernier drive and easy-to-grip knob are combined to give high accuracy in the setting of individual frequencies. Includes both step and continuous-type attenuator controls for exact adjustment of the output voltage. This output is available unmodulated, or modulated by the 400 cycle per second built-in audio oscillator. External modulation can be used, as

well. Use as a marker for sweep generators—see facing page. A 400 cycle per second audio output, adjustable to more than a 10-volt level, is provided for checking amplifiers and other audio devices. Both audio and RF oscillators are of the highly stable Colpitts type, using precision wound coils—no calibration is required. The KG-650 is transformer-operated for reliable service and operating safety. Black metal case; charcoal-gray and silver front panel. Size, $7\frac{1}{4} \times 10\frac{1}{2} \times 5\frac{1}{4}$ ". Includes test leads, all parts, detailed assembly plans and operating instructions. For operation from 110-125 v., 60 cycle AC Shpg. wt., 9 lbs.

83 Y 953-D. \$5 Monthly..... 22.95
83 Y 574-D. Above, but factory assembled..... 32.95

SPECIFICATIONS

Frequency Range—Calibrated Fundamentals: Band A, 160 to 550 kc; Band B, 550 to 1850 kc; Band C, 1850 kc to 7 mc; Band D, 7 to 27 mc; Band E, 27 to 112 mc. Powerful calibrated harmonics are usable to 224 megacycles.

Radio Frequency Output: In excess of 400,000 microvolts.
Modulation Frequency: 400 cycles per second.
Audio Output: In excess of 10 volts, 400 cps.
Tubes: 6C4, 12AT7 and selenium rectifier.

Light-Kit KG-690

Accurate High-Gain

Signal Tracer Kit

RF, IF, VIDEO
AUDIO CIRCUITS

with probe

\$27⁹⁵

\$5 monthly

High Amplification—Gain
of 91,000—Traces Very
Low Signal Levels

Calibrated Wattmeter for
Power Measurements

Test Jacks for Substitution
Servicing, VTVM and Scope



Includes 2-Position RF-AF
Probe, Cable and Connector

There's a place for this highly versatile test instrument on every service shop. It permits fast, precise servicing of radios, tuners, TV sets, hi-fi amplifiers, and other electronic equipment. Lets you check RF, video and audio circuits. Can be used as an audio amplifier for utility noises, too. "Magic Eye" tube, used with calibrated attenuators, indicates signal presence and permits stage-by-stage gain measurements. Built-in 4" speaker for audible tracing. Built-in wattmeter checks electrical circuits. Noise test facilities help locate noisy and intermittent components. Listening posts permit easy substitution servicing; also used for direct connection for scope or VTVM when multiple measurements are to be made. Metal case; charcoal-gray and silver panel. Probe, all parts, instructions. 7 1/2 x 10 1/2 x 5 1/4". For 110-125 v., 60 cycle AC. 15 lbs.

KG-690-D. \$5 Monthly

27.95

SPECIFICATIONS

- Amplifier Voltage Gain:** 91,000 at maximum sensitivity.
- Probe Input Capacity:** 6 mmfd.
- Wattmeter Calibration:** From 25 to 1000 watts—front panel control.
- Speaker:** Built-in 4" PM type.
- Substitution Circuits:** B+, speaker, output transformer.
- Noise Locator Test:** Places a DC potential across the circuit or component under test.
- Power Supply:** Transformer-operated full-wave rectification.

RF Sweep Generator Kit

Develops a wide, linear, and stable sweep with continuous frequency coverage from 300 kc to 250 mc. Use for utility TV and FM alignment and production line test. Has electronic retrace blanking; voltage regulation; automatic gain control; variable sweep width; electro-mechanical reactance modulator; built-in dual crystal oscillator. Less crystals, below. 8 5/8 x 12 1/2 x 7" 110-125 v., 60 cycle AC. 19 lbs.

- KG-123-D. \$5 Monthly..... **44.95**
- KG-052-D. 4.5 mc Crystal. $\pm .005\%$. 3 oz. **4.80**
- KG-050-D. 5 mc Crystal. $\pm .02\%$. 3 oz. **3.95**
- KG-051-D. 10.7 mc Crystal. $\pm .02\%$. 3 oz. **3.95**

SPECIFICATIONS

- Frequency Range:** 300 kc-250 mc continuous, 4 bands.
- RF Sweep Output:** In excess of 0.15 volts, regulated to assure constant output within 1 db on all bands.
- Sweep Frequency and Width:** 60 cycles; 0 to 13 mc.
- Horizontal Sweep Voltage:** 5 volts, RMS, 60 cycle.
- Phase Control:** Blanking shift 0 to 180 degrees.



\$44⁹⁵

\$5 monthly

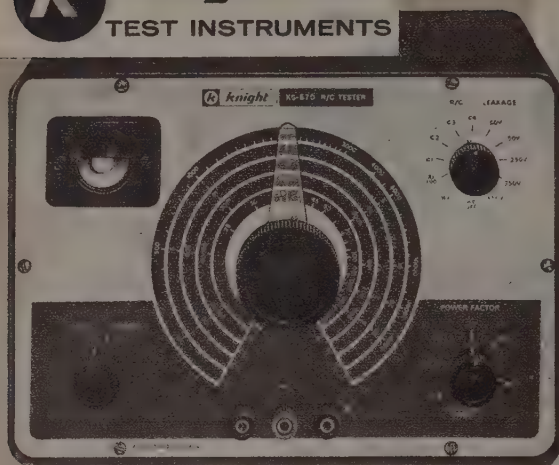
Includes Test Leads

Fit Your Test Bench with Knight-Kits—No Money Down



knight-kit

TEST INSTRUMENTS



With
Test
Leads

\$21⁹⁵

\$5 monthly

MODEL KG-670 RESISTOR CAPACITOR TESTER KIT

- Direct Reading Scales
- Tests Capacitors at Rated DC Voltage
- Measures Resistance to 5 Megohms

Versatile, accurate test unit for top performance in the service shop, lab, or on production lines. Save you work, trims valuable time from hundreds of servicing and testing jobs. AC-operated bridge measures resistance and capacitance with 100% accuracy. Power factor test indicates efficiency electrolytics. Leakage checks show component condition—open, shorted, leaking. Easy-to-read direct and "magic eye" null indicator show resistance and capacity values. Charcoal-gray and silver front panel. Size, 7 $\frac{1}{4}$ x10 $\frac{1}{8}$ x5 $\frac{1}{4}$ ". With tubes, pre-cut wire, solder and instructions. For 110-125 v., 60 cycle AC. Wt., 10 lbs.

83 Y 901-D. \$5 Monthly. **21.95**
83 Y 580-D. As above, factory assembled. **29.95**

SPECIFICATIONS

Resistance Ranges: RX1—100 to 50,000 ohms; RX100—10K to 5 megohms.

Capacity Ranges: C1—.00001 to .005 mfd; C2—.001 to .5 mfd; C3—.1 to 50 mfd; C4—20 to 1000 mfd.

Leakage Test Voltages: 50, 150, 250, 350, 450 volts DC.

Power Supply: Transformer operated half-wave rectifier.

Pace-Setting Best Buys in Test Equipment Kits

SINE WAVE AUDIO GENERATOR KIT

For precise testing of amplifiers, tone control circuits, speakers—speeds up servicing, adds accuracy. Up-to-date circuit, developed by Bureau of Standards, gives stable, uniform output from 20 cps to 1 mc in 5 ranges. Works into either high-impedance or 600-ohm loads. Output voltage step-attenuated and continuously variable, 0-10 v. rms into 600 ohms, flat within ± 1 db. Distortion, below .3% overall. Two-stage cathode follower output for exceptional stability. Gray steel case, two-tone gray panel. With all parts, wire, solder, and instructions. 7 $\frac{1}{4}$ x10 $\frac{1}{8}$ x8 $\frac{1}{2}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 18 lbs.

83 YX 137-D. \$5 Monthly **37.95**



FLYBACK AND YOKE CHECKER KIT

Race through TV deflection circuit repairs with this low-cost kit. Instantly checks horizontal output transformers, deflection yokes, linearity and width coils of TV sets. Provides accurate test of any standard component. Indicates shorted turns in any coil with Q greater than 1 and inductance between .003 henry and 2 henries. Determines continuity of any circuit with resistance between 0 and 0.5 megohms. Uses 6S4A in a pulsed oscillator circuit. Large, easy-to-read 4 $\frac{1}{2}$ " 400-microamp meter gives accurate readings. Transformer power supply. Gray wrinkle case, charcoal-gray panel. 7 $\frac{3}{4}$ x5 $\frac{3}{8}$ x5". For 110-125 v., 60 cycle AC. 6 lbs.

83 Y 118-D. \$5 Monthly **21.95**

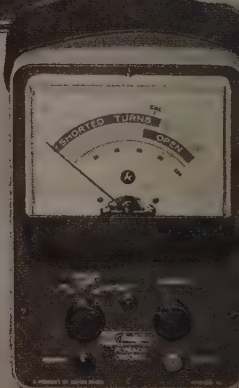
\$37⁹⁵

\$5 monthly

With Leads

\$21⁹⁵

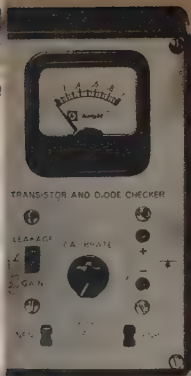
\$5 monthly



NEW LOW PRICE

\$6⁹⁵

With Test Leads



\$14⁹⁵

With Test Leads

TRANSISTOR/DIODE CHECKER KIT

Measures leakage-to-gain ratio of junction, point-contact and surface-barrier transistors. Matches pairs of transistors. Checks germanium and silicon diodes, seleniums and copper oxide rectifiers for reverse current conduction, and front-to-back ratio. Makes noise level tests. Has: spring-return leakage/gain switch; adjustable forward current control; separate sockets for PNP and NPN types; Highly sensitive 1-ma meter movement. Bakelite case, aluminum panel. Size, 6 $\frac{1}{4}$ x3 $\frac{3}{4}$ x2 $\frac{5}{8}$ ". Less battery, below. Wt., 2 lbs.

83 Y 900-D. Was \$8.95 **6.95**
 55 Y 064-D. 22 $\frac{1}{2}$ -V. Battery. 2 oz. **EACH 1.05**

KG-680 CAPACITOR CHECKER KIT

Tests capacitors while they're wired in the circuit. No unsoldering—just connect the test leads across suspected component, press the proper switch, and the "magic eye" shows open or short condition (not leakage). Checks by-pass, blocking, coupling and filter capacitors, 20 mmf or greater capacity for opens, even if shunted by as low as 50 ohms. Tests capacitors up to 2000 mfd for shorts, even if shunted by as low as 50 ohms. You get accurate readings at a glance. Charcoal-gray and silver front panel. 7 $\frac{3}{4}$ x5 $\frac{3}{8}$ x5". For 110-125 v., 60 cycle AC. Wt., 5 lbs.

83 Y 952-D **14.95**

For Home, Shop Bench, Lab or Production Line

RESISTANCE SUB BOX KIT

Convenient switch selects any one of 36 standard I.A. 10% 1-watt resistor values, 15 ohms to 10 megohms. You quickly find the resistance value required a circuit—tops for servicing and equipment design. Ranges: 15-10,000 ohms and 15,000 ohms-10 megohms. With leads and clips. Black bakelite case. 4x3 $\frac{3}{4}$ x2". Wt., 2 lbs.

Y 139-D. **5.95**

CAPACITANCE SUB BOX KIT

Eighteen 20% capacitors cover capacitance range from .0001 to .22 microfarads. Makes it very easy to determine optimum capacitance value. Each capacitor can be switched in and out of circuit without disconnecting test leads. All are rated 600 v., except .15 and .2 mfd which are 400 volts. With leads. 6 $\frac{1}{4}$ x3 $\frac{3}{4}$ x2". Wt., 2 lbs.

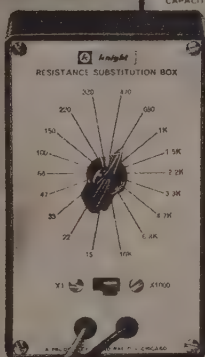
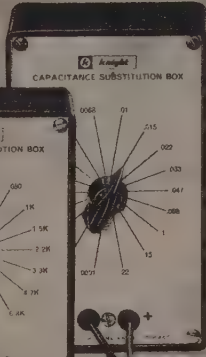
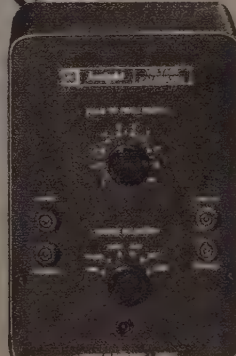
Y 138-D. **5.95**

VOLTAGE CALIBRATOR KIT

Use your Knight-Kit or any other scope as a precision peak-to-peak AC voltmeter. Puts a true square-wave voltage on the screen. Range switch and calibrated potentiometer permit selecting any voltage between 1 and 100 volts. 1st position of switch feeds external signal directly into scope for comparison. Accurate in all ranges. Voltage-regulated power supply. Size, 6x5 $\frac{3}{8}$ x4 $\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. Wt., 5 lbs.

Y 136-D. **12.95**

See Your Credit Fund—See Page 433

Each

\$5⁹⁵

With Leads and Clips

\$12⁹⁵

ALLIED 49



knight-kit

SHORTWAVE KITS

Star Roamer™ Shortwave Receiver Kit Outfits

Tunes Long, Medium and Shortwave, 200-400 Kc and 550 Kc to 30 Mc in Five Ranges.

Star Roamer Alone
\$39⁹⁵

\$5 monthly



\$42⁹⁵
\$5 monthly



EASY TO BUILD, step-by-step instructions guide you every move. Even if you've never built anything before, you can build a perfect "Star Roamer."



\$46⁹⁵
\$5 monthly



\$44⁹⁵
\$5 monthly



NO MONEY DOWN when you buy the "Star Roamer" on Allied's Credit Fund Plan. Just fill out the application form on the back of any Allied order blank. For details, see page 433.

A OUTFIT NO. 1

You'll tune the wide world from your armchair with this complete SWL kit station outfit. Includes everything you need to listen to exciting shortwave, ships, planes, Hams, plus your favorite AM shows. You get: Knight-Kit "Star Roamer" 5-Band Shortwave Receiver Kit; Dual 2000-ohm Headset with Cord and Phone Plug; Outdoor Antenna Kit that includes 50' of wire, 25' lead-in, and insulators. Wt., 17 lbs
23 YX 632-3D. \$5 Monthly. **42.95**

B OUTFIT NO. 2

Deluxe package for ultimate ease in building and operating this terrific SWL kit station outfit. You get: Knight-Kit "Star Roamer" 5-Band Shortwave Receiver Kit; Dual 2000-Ohm Headset with Cord and Phone Plug; Outdoor Antenna Kit that includes 50' of wire, 25' of lead-in, and insulators; World Map; Two Log Books; Ungar 40-Watt Soldering Iron; 1/8x4" Screwdriver; Miller Wire Stripper/Cutter. 19 lbs.
23 YX 633-3D. \$5 Monthly. **46.95**

C OUTFIT NO. 3

Low-cost package includes several valuable accessories to help you build and operate this complete SWL kit station outfit. You get: Knight-Kit "Star Roamer" 5-Band Shortwave Receiver Kit; Dual 2000-Ohm Headset with Cord and Phone Plug; Outdoor Antenna Kit that includes 50' of wire, 25' of lead-in, and insulators; Two Shortwave Log Books; plus fast-heating Ungar 40-Watt Soldering Iron. Wt., 18 lbs.
23 YX 634-3D. \$5 Monthly. **44.95**

"STAR ROAMER" 5-BAND SHORTWAVE RECEIVER KIT

Hear history-making events as they happen—from where they happen—on a superhet receiver you build yourself. "Star-Roamer" pulls in stations from the far corners of the earth. Precision electrical bandspread, IF sen-

sitivity control, ANL, AVC, S-meter, 4" speaker, phone jack. Charcoal gray case. 5 1/2 x 12 1/4 x 8". For 110-125 v., 60 cycle AC. Wt., 15 lbs.
83 YX 102-D. \$5 Monthly. **39.95**

C-100 Walkie Talkie Kit Outfits

OUTFIT NO. 1



\$5
monthly **\$19.30**

OUTFIT NO. 2



\$21.25 \$5
monthly

KNIGHT-KIT C-100 WALKIE TALKIE KIT

Each
\$9.95 2 for **\$18.88**

2-way communications up to 1/4 mile. No license needed. Press the button and you're on the air. 5 3/8 x 2 7/8 x 1 3/4". With transmitting crystal. Less battery and optional carrying case, below. 9 oz.

83 Y 804-D.....EACH 9.95
83 Y 821-D...PKG. OF TWO 18.88
83 Y 002-D. Battery, 4 oz. EACH 21¢
83 Y 013-D. Case, 6 oz.98¢

OUTFIT NO. 3



\$23.25 \$5 monthly

OUTFIT NO. 4



\$5 monthly **\$25.95**

OUTFIT NO. 1

Everything you need for lowest-cost, reliable two-way on-the-go communications at distances of up to 1/4 mile between units. Really convenient for camping, hunting, picnics, or just keeping in touch with home. Build the C-100 Kits in just a few short, fun-filled hours, and you're ready for instant operation. You get: Two Knight-Kit Model C-100 All-Transistor Citizens Band Walkie Talkie Kits with easy instructions; and Two Long-Lasting 9-Volt Batteries. Shpg. wt., 2 lbs.

83 Y 850-D. \$5 Monthly.....19.30

OUTFIT NO. 2

Great buy in a package that gives you low-cost communications. You get: Two Knight-Kit Model C-100 All-Transistor Citizens Band Walkie Talkie Kits with easy instructions; Two Handsome Leatherette Carrying Cases with Hand Strap; and Two Long-Lasting 9-Volt Batteries. Shpg. wt., 3 lbs.

83 Y 820-D. \$5 Monthly.....21.25

OUTFIT NO. 3

Includes everything you need to build and operate these walkie-talkie kits. You get: Two Knight-Kit Model C-100 All-Transistor Walkie Talkie Kits; Two Handsome Carrying Cases with Hand Strap; Two Long-Lasting 9-Volt Batteries; Ungar 40-Watt Soldering Iron; 1/2x4" Screwdriver; and Miller Combination Wire Cutter and Stripper. Shpg. wt., 4 lbs.

23 Y 635-2D. \$5 Monthly.....23.25

OUTFIT NO. 4

Learn about electricity while you build and use the C-100's. Includes: Two Knight Kit Model C-100 All-Transistor Citizens Band Walkie Talkie Kits; Two Carrying Cases with Hand Strap; Two 9-Volt Batteries; Ungar 40-Watt Soldering Iron; 1/2x4" Screwdriver; Miller Wire Cutter and Stripper; 128-Page "Fun With Electricity" Book. Shpg. wt., 5 lbs.

23 Y 636-2D. \$5 Monthly.....25.95

83 Y 292-D. Ungar Soldering Iron Only. 6 oz.2.44



knight-kit

SHORTWAVE KITS

"Listen In" on the World— Hear History in the Making



EASY TO BUILD

Everyone enjoys building these Knight-Kit shortwave sets because it's so easy and it's so much fun! No expensive tools are required—just a pair of long-nose pliers, cutters, a screwdriver and a soldering iron are all you ever need. Your kit is complete, nothing else to buy. Clearly written, step-by-step instructions are easy to follow and each manual is loaded with large, clear diagrams and pictorials, too. Even if you've never built anything before you can build a Knight-Kit.

SPAN MASTER® 4-BAND SHORTWAVE RECEIVER KIT

new low price

\$24⁹⁵

with case

- Highly Sensitive Shortwave Reception
- Bandspread Control Makes Tuning Fun and Easy
- Transformer-Powered for Maximum Performance
- Built-In Speaker Plus Headphone Terminals
- Fine Regeneration Control For Sharper Tuning

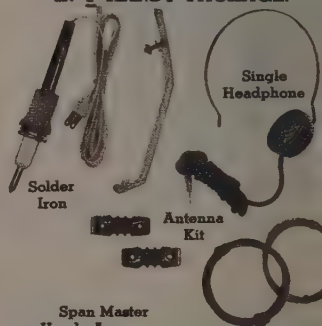
Get started in the fascinating space-age hobby of shortwave listening now! Incredible adventures travel across the air waves, and with the Span Master the world is as close as your fingertips. You tune in on headlines direct from news capitals—hear history as it is made! Listen in on messages from ships and aircraft; hear interesting communications on the Citizens Band; receive Amateurs on the 160, 80, 40, 20, 15 and 10-meter bands; there's music from the earth's far corners; and the standard 550-1600 kc AM broadcast band for regular programs.

Features a super-sensitive regenerative circuit that tunes continuous from 540 kc through 30 mc. A bandswitch selects any one of the 4 bands available. Bandspread tuning and fine regeneration controls simplify tuning and separate crowded stations. Headphone terminals located at the rear, and speaker cut-out switch permit private headphone reception if desired. Built-in speaker provides plenty of volume. Coils for each tuning range have their own antenna windings to assure maximum sensitivity. AC transformer power supply gives peak-efficiency vacuum tube performance—provides isolation from power line.

6 operating controls: Calibrated Main Tuning, Bandspread Tuning, Band-switch, Volume with On-Off Switch, Coarse Regeneration, Fine Regeneration. A listing of foreign broadcasting stations is included as an aid in tuning transmissions from all over the world. Manual has sections on Morse Code. Size, 6 1/4 x 14 x 6 3/4". With all parts, wire and solder. For 110-125 v., 60 cycle AC. Shpg. wt., 9 lbs.

83 Y 258-D. \$5 Monthly..... 24.95

SPAN MASTER PLUS IMPORTANT ACCESSORIES IN 1 HANDY PACKAGE!



Span Master
Handy Accessory
Package

Complete
Package **\$27⁹⁵**

\$5
monthly

A winning combination—the famous Span Master Shortwave Receiver Kit plus the most wanted accessories. In addition to the Span Master, you receive a single headphone, outdoor antenna kit with all mounting hardware, plus a quality Ungar soldering iron with replaceable tip. It's perfect for building your kit and for many other jobs around the house. Shpg. wt., 12 lbs.

23 Y 631-2D. \$5 Monthly.. 27.95

Two Low-Cost Shortwave Favorites from Knight-Kit



"OCEAN HOPPER" 6-BAND SHORTWAVE AND BROADCAST RECEIVER KIT

- \$16⁹⁵**
- Uses Plug-In Coils for 165 kc-35 mc
 - Covers 4 Shortwave Bands plus Longwave and AM Broadcast
 - Easy to Build—Simple to Operate

Years and hours of listening pleasure are packed into this top-performer! One of the most popular kits ever offered, this amazing set covers AM broadcast plus both shortwave and longwave. Efficient regenerative circuit, with handy plug-in coils, tunes from 165 kc through 35 mc, for marine, distress, aeronautical, standard broadcast, Ham, and international shortwave coverage. Electrical bandspread; antenna tuning control and regeneration control. On strong local stations, receiver will operate a 3-4 ohm PM speaker (not supplied). Building "Ocean Hopper" is also an ideal way to learn the fundamentals of radio—at an economical price.

With cabinet, broadcast band coil and instructions. Less than 60¢ for coils, headphone and antenna, below. 6 3/4 x 10 1/2 x 2 1/2". For 110-125 v., 50-60 cycle AC or DC. 7 lbs.

- Y 749-D **16.95**
 Y 748-D. Set of 5 Plug-In Coils. Provide overlapping coverage of 165 kc through 35 mc with broadcast coil "Ocean Hopper" above. 1 lb. **2.95**

USEFUL ACCESSORIES FOR SHORTWAVE LISTENING

ANTENNA KIT. For outdoor or attic mounting. With 50-ft. antenna wire, 25-ft. lead-in, plus hardware and insulators. 1 1/2 lbs. **98¢**
 Y 099-D **98¢**

- [B] DUAL HEADSET.** 2000 ohm. Have dual tip pins for headphone jacks on Knight-Kits on this and facing page. Wt., 12 oz. **2.08**
 83 Y 027-D. **2.08**
 83 Y 028-D. Single Headphone. 8 oz. **1.08**



SPACE SPANNER® SHORTWAVE AND BROADCAST BAND RECEIVER KIT

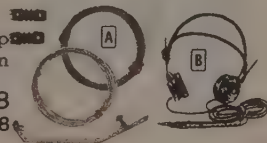
- \$18⁹⁵**
- Covers 540-1700 kc; 6.5-17 mc
 - Has Built-In, Clear-Toned Speaker
 - Control for Quick Bandswitching
 - Electrical Bandspread Tuning

Hear fascinating overseas broadcasts on a receiver you build yourself! Low in cost, the 2-band Space Spanner pushes back the horizon as it reaches out for exciting messages from the farthest corners of the earth. You hear foreign broadcasts, messages from ships and planes, Amateur radio operators talking and sending code on the 40 and 20-meter bands—plus favorite radio programs on the standard broadcast band.

Selector switch permits easy switching between the 6.5-17 mc shortwave band and the 540-1700 kc broadcast band. Electrical bandspread control provides easy, accurate tuning and effectively aids separation of crowded stations. Beam-power amplifier and built-in 4" speaker give clear, full-toned reception. Provision for headphone reception if desired.

Includes cabinet, all parts, and detailed step-by-step instructions. Size, 7 7/8 x 11 x 5 3/8". For operation from 110-125 v., AC-DC. Wt., 7 lbs.

- 83 Y 209-D **18.95**



Knight-Kits are Fun to Build—And Save You Money



knight-kit
HOBBYIST KITS

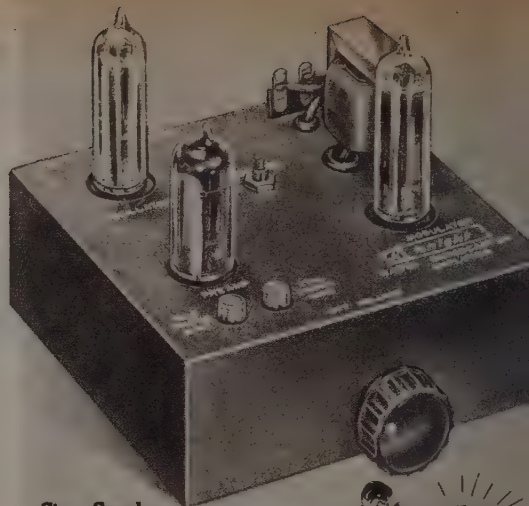
For Fun-Packed Hours

POPULAR RADIO BROADCASTER AND EXCITING AUDIO AMPLIFIER KIT

Imagine the fun you'll have playing "announcer" with this "honest-to-goodness" radio station! After easy assembly, just plug in a microphone or record player and you're "on the air". Tune voice or music anywhere in the house through the nearest radio—no connections to set. Can be used as a phono amplifier with an external PM speaker and record player—simple to hook-up. Handy as a P.A. system or an electronic "baby-sitter"—lets you listen for sounds from nursery. Transmits to radio from 600 to 1500 kc (adjustable). Equalized for magnetic cartridges—can also be used with ceramic or crystal cartridges and mikes. With all parts, instructions. $4\frac{1}{2} \times 5 \times 6$ ". Less mike, below. For 110-125 v., AC-DC. 3 lbs.

83 Y 706-D. 11.95

83 Y 296-D. Crystal Mike. Wt., 1 lb. 1.98



**Sing, Speak,
Play Records
Through Your Radio**

\$11.95

**Reduced Price
Was \$12.95**



**It Broadcasts Just Like
a Real Radio Station.**

**Equalized
for Magnetic
Cartridges**



**Use Also As
An Audio
Amplifier.**



**Anyone Can
Build It!
Easy to
Use**

**Includes
Sensitive
Cadmium
Selenide
Photocell**

**Relay
\$12.95**

**Actuates Relay
From Over 500'**

**Light Source
\$7.75**



Red Plastic Filter

Fast-Acting, Dependable PHOTOELECTRONIC RELAY KIT

Look At These Uses

**BURGLAR ALARM
OPENING DOORS
ANNOUNCING
COUNTING
LIGHT CONTROL**



**Can Be Easily Set for Trip
or Automatic Operation**

Here's a swift, silent workman who does 1001 jobs for you in the home, store or plant. Use to turn lights on and off; open doors; "announce" customers. Also reliable for counting; and as a burglar alarm. Any light source activates it—auto headlights, daylight, even light energy from molten metals—or optional light source kit, below. Up to 600 counts per minute. Trip operation—gives continuous ringing of alarm. Auto—if relay is to be operated each time light is blocked. Supplies 6.3 v. AC at 0.6 amps for counter alarm. With all parts, instructions. $4 \times 3 \times 5$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 3 lbs.

83 Y 702-D. 12.95

83 Y 703-D. Light Source Kit. Consists of transformer operated sealed-beam bulb that will actuate relay from over 500'. Has deep-red plastic filter. $6 \times 6 \times 4\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. 5 lbs. 7.75

83 Y 007-D. Chime. Pleasant tone. 2 lbs. 4.80

Years and Years of Dependable Service

TOP-QUALITY RADIO TO BUILD AND ENJOY

Housed in a Handsome,
Smartly Styled Cabinet
Full-Toned PM Speaker
Easy, Fun-Filled Assembly
Sensitive Superhet Circuit

Finest Quality
Parts and Proven,
Expert Design

\$16⁹⁵

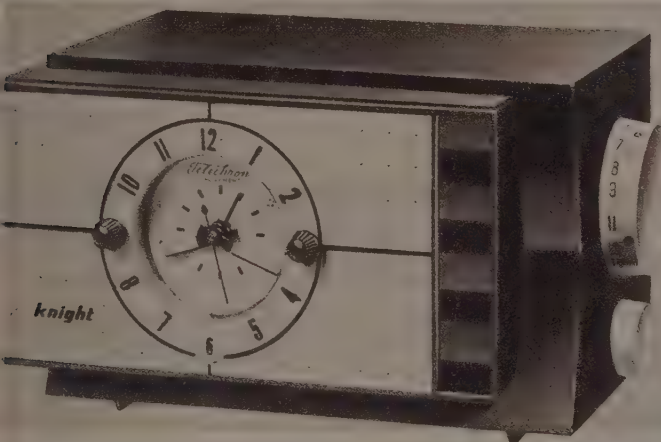


KNIGHT-KIT "RANGER III" AM SUPERHETERODYNE RADIO KIT

Get the latest news, thrilling sports events, music and variety of interesting shows on a dependable radio that you build yourself. Featuring finest quality parts and expert design, the famous, handsomely styled "Ranger III" table radio delivers outstanding reception of the entire standard AM broadcast band. And, you'll really marvel at the easy, fun-filled assembly. Top-quality Telechron V speaker and acoustically designed cabinet for

clear, full tone. Superhet circuit has: AVC for reducing fading and blasting; Hi-Q loop antenna; and a smooth-tuning ball bearing capacitor. Miniature tubes are: 12BE6, 12BA6, 12AV6, 50C5 and 35W4 rectifier. With all parts, and step-by-step, detailed instructions. Black with white trim. $5\frac{3}{8} \times 8\frac{5}{8} \times 4\frac{5}{8}$ ". For 110-125 v., 50-60 cycle AC, or DC. Shpg. wt., 5 lbs.

83 Y 736-D. 16.95



KNIGHT-KIT "RANGER III" AM CLOCK-RADIO KIT

Printed Circuit Superhet With Plug-In Modules for Easy Assembly

Drift off to a musical dreamland . . . wake up to refreshing music the next morning. And you can't oversleep—alarm sounds and gets you up 10 minutes before radio goes on. 1200-watt outlet switches on your coffeemaker, lamp, or other appliance automatically. Luminous clock hands give correct time at a glance. Unique modularized circuitry makes building a fascinating experience. Pre-assembled resistor and capacitor assemblies are plugged into a matching printed circuit board and soldered in place. Anyone can do the easy assembly in surprisingly little time. Attractively finished in ebony and white. With Telechron clock, all parts, instructions. $5\frac{1}{4} \times 9\frac{5}{8} \times 5\frac{3}{8}$ ". For 110-125 v., 60 cycle AC. Wt., 6 lbs.

83 Y 737-D. \$5 Monthly 24.95

You Can Wake Up to Music!

\$24⁹⁵

**\$5
monthly**

Quality
Telechron
Clock
Mechanism



Sleep-Switch
for 1 Hour of
Music Before
Shut-off



1200-Watt
Appliance
Outlet
Starts Coffee



Use Your Allied Credit Fund to Buy Knight-Kits

ALLIED 55



knight-kit
INTERCOM KIT

Transistorized! 6-Station Capacity

KG-3000 TRANSISTOR
MASTER INTERCOM KIT

Master
Station
Only **\$19⁹⁵** new
low
price

- 4-Transistor High-Gain Circuit for Excellent Sensitivity
- Masters Can Call Remotes Separately or Collectively
- Transformer Operated for Top Performance and Isolation
- Low AC Drain—Uses About As Much As An Electric Clock

A deluxe Master offering performance on a par with far more costly professional equipment. Use with other Masters, Remotes, or combinations; calls any unit or units separately or collectively. Push-pull output gives maximum speech clarity; "Thermal Feedback" circuit for optimum stability. Remotes always hear your call since their volume can never be completely turned off. Controls only set incoming volume—each unit's setting does not affect another. Uses no on-off switch since transistor current drain is hardly more than an ordinary electric clock—about 4 watts.



Master Station Can
Use up to 5 Remotes

Remote Station Does
Not Require Power

Oxford Gray and Eggshell White. Stations may be operated up to 100' apart. Only Master plugs into line; transformer operated for isolation. Instructions. 3³/₄"x8¹/₂"x5³/₄". For 110-125 v., 60 cycle AC. 4 lbs.
83 Y 404-D. \$5 Monthly.....19.95

83 Y 405-D. Remote Kit. Use up to 5 per Master. Style and color as above. Less cable, below. 3 lbs.....7.95

49 W 604-D. 3-Conductor Cable. To determine amount required, measure distance from Master to each Remote and total. Wt. per 100' 1³/₄ lbs.....PER FOOT 3¢

knight-kit Fine-Quality AM Portable Radio . . . at Low Cost



Take Your Favorite Radio Programs With You

\$19⁹⁵

\$5 monthly

- RCA Drift-Field Transistors
- Large, 3¹/₂" Speaker
- Printed Circuit Assembly
- Push-Pull Output
- Spring-Loaded Handle

ALL-TRANSISTOR AM RADIO KIT

Here's a transistorized portable radio that gives you big-set AM radio performance wherever you go. It's great for picnics, strolling, hiking, boating or bicycling. Five transistor circuit is economical, too. Plays for hours and hours on a single 21¢ battery (optional, listed below).

Precision engineered circuitry utilizes RCA drift-field transistors to provide excellent sensitivity, selectivity, and undistorted sound output. An efficient 3¹/₂" speaker, driven by the push-pull output stage, supplies powerful big-set volume and tone quality. Sure-grip knobs for tuning and volume are conveniently located at front of case.

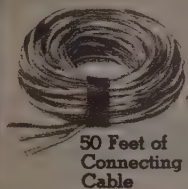
Ebony-trimmed ivory case has 2 satin-gold finished endplates. With instructions. Less battery and earphone, below. \$3³/₄"x8x2". Shpg. wt., 3 lbs.
83 Y 922-D. \$5 Monthly.....19.95

83 Y 002-D 9-Volt Battery. Wt., 4 oz.....21¢

83 Y 293-D Earphone, Cord and Plug. 5 oz.....79¢

Remote
Station

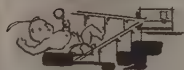
Master
Station



knight-kit

It's Easy to Build
Easy to Use... Our Best
Selling Intercom Kit

Look What You Can Do!



Listen In On
Baby's Room from
Any Other Room
of the House . . .



Call the Garage,
Workshop or Play-
room Right from
Your Kitchen . . .



Page Workers at
Their Jobs—No
Need to Leave
Work Area . . .



Save Time and
Steps—Office
Calls Warehouse
for Orders . . .

You Get More with This Outstanding System

Master and
Remote

\$14⁹⁵

- Amazingly Sensitive—Actually Responds to Even a Whisper
- Complete Outfit—Includes Both Master and Remote Plus Interconnecting Cable
- Can Easily Be Assembled by Anyone
- Use With Up to Three Extra Stations

2-STATION ECONOMY INTERCOM SYSTEM KIT OUR MOST POPULAR—THOUSANDS IN USE

An excellent 2-way communications system for home, shop or office! Bargain-priced, you'll find this time and step-saver is one of the most useful kits ever designed. For example, it's perfect for electronic "baby-sitting"—simply install the Remote unit in the nursery to permit continuous listening in—place the Master in the kitchen or laundry room. In the office or shop, you can have private or non-private conversations by simple use of the "Press-to-Talk" switch on the Master and the "Talk-Listen" switch on the Remote. And, you can use up to 3 more remotes parallel-wired.

Master has volume control to adjust loudness of system; only the Master station needs to be plugged into your wall power outlet. All Remotes can talk with each other when Master is on. Stations operate up to 50' apart with wire supplied—up to 200' when 18-gauge wire is used. High-gain amplifier and finest-quality 4" speakers respond to the slightest sound—even to a whisper.

The metal cabinets are styled in Cream Ivory with contrasting brown speaker grilles, and make an attractive addition to any room. Includes all parts, 50 ft. connecting cable, and instructions. Each unit, 5x6⁵/₈x4¹/₂". For 110-125 v., AC or DC. 7¹/₄ lbs.

83 Y 297-D. Complete 2-Way System..... 14.95

83 Y 298-D. Extra Remote Kit. Less cable, below. 3 lbs 3.95

49 W 604-D. Extra 22-Ga. Cable. Wt., 100', 1³/₄ lbs...PER FOOT 3¢

*Check These Top-Notch
Intercom Features:*

Remote Has Talk-
Listen Switch Which
Can Be Set to Re-
ceive Messages or
Be on Constant
Transmit Position.



High-Quality 4"
Speakers Are Used
in Both Master and
Remote for Clear
Sound and Plenty
of Volume.



Only Master Has
Volume Control to
Set Entire System
Level. No Adjust-
ments Are Needed
at Remote Station.



All Knight-Kits are Supplied With Solder



knight-kit
INTERCOM KITS

All Transistor... and Wireless, Too!

**FINEST PERFORMANCE
ULTIMATE RELIABILITY**



IT'S WIRELESS!



Simply Plug Into
Any Wall Outlets.
No Warm-Up Time
Required.

Check These Advanced Intercom Features

- ✓ Amazingly Low Current Drain—Uses Little More Than an Electric Clock
- ✓ Extremely Cool Running—No Heat or Ventilation Problems
- ✓ Virtual Freedom From Noise/Hum
- ✓ Virtually Maintenance-Free Operation
- ✓ Decorator-Styled—Keyhole Slots Allow You to Hang it on Wall



Oversize Press-to-Talk Buttons Have "Lock-On" Design—Makes an Excellent Babysitter

Specially Designed Volume Control Prevents Turning Level Too Low—No Missed Calls

2-STATION WIRELESS INTERCOM SYSTEM KIT

\$39⁹⁵

\$5 monthly

- Completely Transistorized Circuitry
- Both Stations are Masters
- Add Any Number of Stations As Needed
- Economical to Use—Just 4 Watts Drain

Transistorized and wireless—there isn't a better intercom value available! Thousands of these Knight-Kit intercoms are now in use throughout the country in homes, offices, schools, and plants—proof of their popularity and unexcelled performance. Offering top flexibility, this deluxe 2-station system provides you with years of dependable noise-free communications. Use it in your home, office, between adjacent homes or buildings on the same power-company line transformer—move stations from place to place as desired. Just plug into any wall socket and you're ready to talk.

Has amazingly low current drain—hardly more than an ordinary electric clock—just a maximum of 4 watts. A noise-silencing squelch circuit provides quiet, static-free standby operation. A variable frequency control lets you operate two systems simultaneously and independently. A specially designed volume control makes it impossible to inadvertently turn the volume below an audible level and miss a call. There's complete freedom from hum and microphonics; virtually maintenance-free operation; compact size; and extremely cool operation—never any ventilation problems.

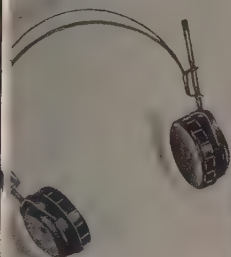
Styrene cases are handsomely styled in Oxford Gray and Eggshell White; are only 3x8 1/4 x 5 3/4". With all parts and detailed instructions. For 110-125 v., 50-60 cycle AC or DC. 7 lbs.

83 Y 991-D. 2 Station System. \$5 Monthly. **39.95**
83 Y 992-D. Additional Station Kit. 4 lbs. **20.95**

Learning Electronics Is Fun with a *knight-kit*

NOW EXPLORE THE MAGIC SPACE-AGE WORLD OF TRANSISTORS

*Thrilling Adventure
with Enjoyment for
the Whole Family*



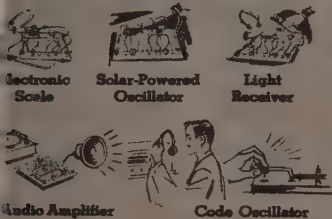
Includes Dual
Headphones

Silicon Solar Type
Photocell Included

Detailed Guide Cards

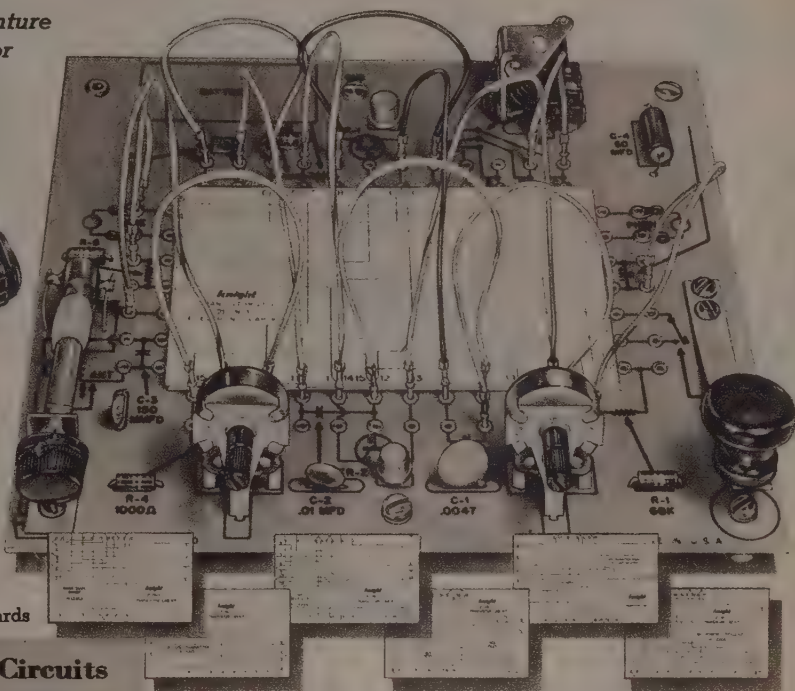
21 Individual Circuits

BUILD ANY OF THESE
FASCINATING CIRCUITS



PLUS 16 MORE!

1 Transistor Radio • 2-Stage AM
Radio • Solar-Powered Radio • CW
Transmitter • Magic Music Maker
• Burglar Alarm • Light-Operated
Relay • Signal Injector • Wireless
Broadcast • Telephone • Elec-
tronic Flasher • Electronic Switch
• Body-Capacity Alarm • Elec-
tronic Timer • Electronic Cat •
Voice-Operated Relay



21-IN-1 TRANSISTOR LABORATORY KIT

\$14⁹⁵

less battery

- Plug-In, Pin-Type Leads for Quick Change
- All Parts Mount on Printed Circuit Board
- Guide Cards Clearly Show Circuit Hookup
- Easy-to-Follow Assembly Manual

Experiment with the space-age wonder of transistors with the exciting 21-in-1 Transistor Lab Kit. What fun you have. Operate your own radio station—broadcast through any nearby radio. Amaze your friends by turning electrical equipment off and on with your voice, or with a beam of light. Hear local radio stations on any of the AM receivers—there's even one that runs from sunlight! Catch the "burglar" with body-capacity type alarm. All in all, you perform 21 separate, interesting, fun-filled projects.

A durable printed circuit board makes assembly really easy. Just plug in the component parts and solder them to the wiring pattern. Special guide cards provide positive, mistake-free layouts. Pin-type leads are plugged into numbered jacks—go from one project to another by re-arranging leads—no further soldering.

Detailed manual includes a concise, clearly written explanation on what each circuit does and what makes it work. Supplied complete with all parts including: 2 transistors; dual headphones (also used as microphone); plug-in leads; guide cards; relay; and photocell. Battery powered; less battery, below. Wt., 2 lbs.

83 Y 624-D..... **14.95**

83 Y 213-D. Battery for Above. Shpg. wt., 8 oz..... **69¢**

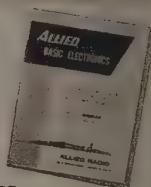
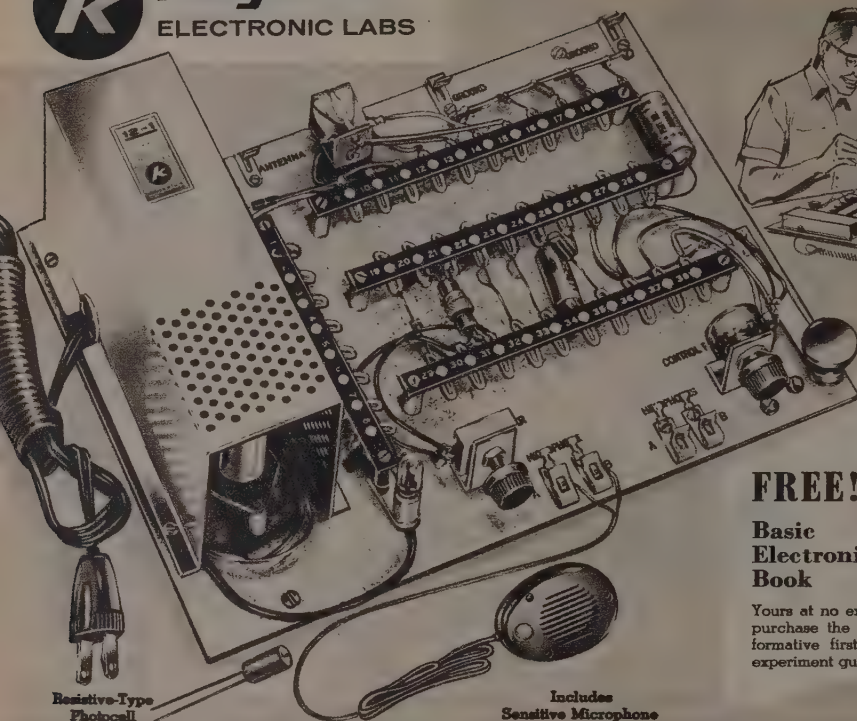
Kit Building is Easy with Knight-Kit Instructions

ALLIED 59



knight-kit
ELECTRONIC LABS

Thrilling Space-Age Fun



FREE!

**Basic
Electronics
Book**

Yours at no extra cost when you purchase the 12-in-1 kit. An informative first-course study and experiment guide.

Resistive-Type
Photocell

Includes
Sensitive Microphone

Fun-Filled 12-in-1 Electronic Laboratory Kit

\$15⁹⁵

CHECK ALL THESE EXCLUSIVE FEATURES!

- ✓ Very Easy to Assemble—
Even Easier to Operate!
- ✓ Easy to Follow, Step-by-Step
Instructions
- ✓ Permanent Parts Mounting—
Change Circuits Quickly
- ✓ No Circuit Duplication—You
Get 12 Separate Projects
- ✓ All Circuits Demonstrate
Important Electronic Ideas
- ✓ Informative Manual Includes
Morse Code and Symbols
- ✓ You Get Allied Basic
Electronics Book, Too



Code Practice
Oscillator



Electronic
Flasher



Voice
Relay



Code
Transmitter



Audio
Amplifier



Broadcast
Receiver

Attention all students, experimenters and hobbyists: Learn the basic fundamentals of electronics the enjoyable Knight-Kit way—while performing practical and interesting projects. Broadcast your voice through any AM radio in the house. Control electrical devices by stepping on a metal plate, by speaking in a microphone, or by flashing a light on a photocell. Make "music" by moving your hands in a beam of light. Listen to your favorite local programs on the AM receiver. Build a code oscillator, code transmitter, electronic switch, timer, flasher, and audio amplifier, too. After the basic parts are in place, just switch leads to change circuits. Uses a rugged transformer-operated power supply. Includes 8x11" mounting board, all parts and detailed, step-by-step instructions. Less headphone, listed below. For operation from 110-125 v., 50-60 cycle AC. Wt., 4 lbs.
83 Y 207-D. With Basic Electronics Book.....15.95
83 Y 028-D. Single Headphone for Above. Wt., 8 oz.....1.08



Electronic
Timer



Capacity
Relay



Wireless
Broadcaster



Light
Relay

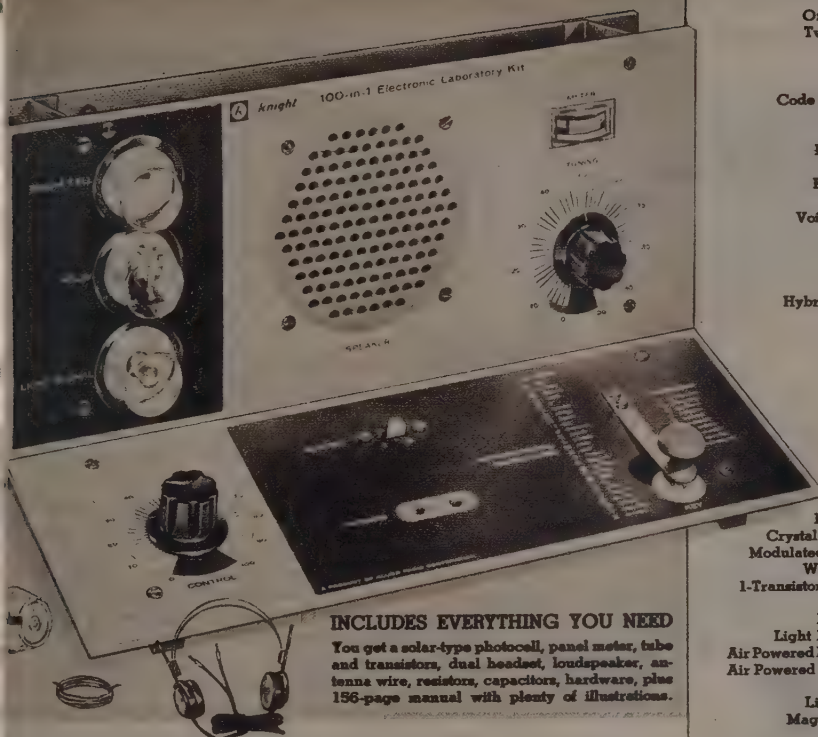


Electronic
Switch



Magic Music
Oscillator

For Everyone in the Family



INCLUDES EVERYTHING YOU NEED

You get a solar-type photocell, panel meter, tube and transistor, dual headset, loudspeaker, antenna wire, resistors, capacitors, hardware, plus 156-page manual with plenty of illustrations.

Fascinating 100-in-1 Electronic Lab Kit

OVER 100 AMAZING SPACE-AGE PROJECTS!

- ✓ Requires No Soldering—Just a Screwdriver
- ✓ Unique Spring-Type Connectors Hold Leads
- ✓ Transformer Powered for High Efficiency
- ✓ Includes Transistor and Tube-Type Projects
- ✓ Complete Learn-As-You-Build Instructions
- ✓ Professional-Locking Control Panel
- ✓ Includes All Parts—Nothing Else to Buy

new low price

\$24⁹⁵

\$5 monthly

Put the space-age wonder of transistors to work for you—discover how vacuum tubes operate—perform over 100 electronic experiments with more fun, more thrills, more enjoyment than you ever dreamed possible! Apply every type of modern electronic component in creating useful, exciting projects that entertain as well as instruct. There's nothing like the 100-in-1 for students, hobbyists, and experimenters!

No soldering is required—you need only a screwdriver. Once the main parts are mounted on the master control panel, simply reposition a few leads and parts to quickly change projects. Unique spring-type connectors are used to hold wires and smaller components. Easy to follow, step-by-step instructions guide your every move.

Includes all parts and separate illustration of each project. Detailed explanation of how each circuit works included. Size, 8x14½x8". For 110-125 v., 60 cycle AC. Wt., 8 lbs.
#3 Y 997-D. \$5 Monthly..... 24.95

Knight-Kits Feature Step-by-Step Instructions

**LOOK AT ALL
YOU BUILD!**

One-Transistor Radio
 Two-Transistor Radio
 Electronic Cat
 Matron
 Code Flasher
 Code Practice Oscillator
 Signal Injector
 Code Clicker
 Morse Code Buzzer
 Signal Tracer
 Electronic Squealer
 Mike Preamplifier
 Voice Operated Relay
 Electronic Switch
 Burglar Alarm
 Audio Amplifier
 Conelrad Monitor
 Hybrid Audio Amplifier
 Light Receiver
 Battery Tester
 Diode Checker
 Light Meter
 Crystal Set
 CW Monitor
 Ohmmeter
 Flasher
 Timer
 Boat Horn
 Fire Alarm
 Hybrid Radio
 Hybrid Voice Relay
 Crystal/2-Transistor Radio
 Modulated Code Transmitter
 Wireless Broadcaster
 1-Transistor Voice Transmitter
 CW Transmitter
 Photoelectric Relay
 Light Powered Oscillator
 Air Powered Earphone Amplifier
 Air Powered Code Practice Unit
 Air Powered Radio
 Light Powered Radio
 Magic Music Oscillator
 Polarity Checker
 Resistor and Capacitor Checker
 DC Voltmeter
 AC Voltmeter
 AC Milliammeter
 DC Milliammeter
 Tube Checker
 Lie Detector
 Electronic Thermometer
 Electrolysis Detector
 DC Microammeter
 Applause Meter
 "S" Type Meter
 Monitor/Output Level Indicator
 Transistor Checker
 Flashlight Battery Charger
 Transistorized DC Voltmeter
 Tube Code Practice Oscillator
 Electronic Scale
 Electronic Talker
 Optical and Audible Metronome
 Tube Diode Radio
 Grid Leak Radio
 Electronic Timer
 Resistance/Capacitance Bridge
 Electrolyte Checker
 Telephone Intercom
 Sound Powered Telephone
 Vacuum Tube Voltmeter
 Hybrid Signal Tracer
 Signal Generator
 Code Practice Generator
 Hybrid Broadcast Transmitter
 Monitor/Volume Unit Indicator
 Hybrid Speaker Radio
 Light Operated Relay
 Hybrid Light Meter
 Hybrid CW Monitor
PLUS MANY, MANY MORE!



knight-kit

AUTOMOTIVE KITS



Improves Motor
Performance ...
Increases Fuel
Economy ...

\$2⁹⁵

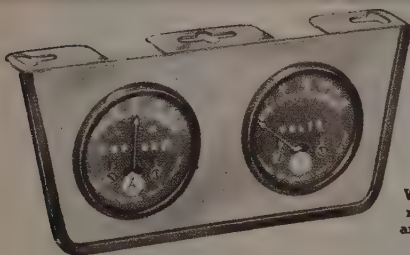
\$5 monthly



For Dash-Board Mounting—
Housing Can Be Tilted to
Any Desired Angle.



Also Mounts on Steering
Column at any Desired
Angle—Head is Rotatable.



\$9⁹⁵

With Illumi-
nated Dials
and Hook-up
Cables

Precision Transistorized Electronic Tachometer Kit

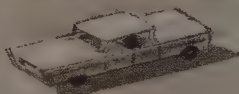
- ✓ Linear Meter Registers Engine Speed 0-8000 rpm
- ✓ Precision D'Arsonval Movement for Top Reliability
- ✓ Provides Exceptional 3% Full Scale Accuracy
- ✓ Zener Diode Regulation for Continuous Stability
- ✓ 20,000 Ohm Hi-Z Input—No High Voltage Loss
- ✓ For Boats, Cars, Outboards, Diesels, Etc.
- ✓ Illuminated Meter Has Extruded Aluminum Housing

It's rugged... it's reliable... and it's jam-packed with those special features needed for better, all-around motoring efficiency. The illuminated Knight-Kit Transistorized Tachometer Kit accurately registers engine speed in rpm electronically—helps you set engine for top fuel economy—or to develop maximum horsepower. This exciting "Tach" makes a marvelous accessory for compact, standard and sports cars, boats with outboard engines, or motorcycles—it's the perfect gift for that favorite auto or boat enthusiast!

Transistorized switching and zener diode regulation provide 3% full scale accuracy—regardless of temperature or voltage changes. Operates with 1-8 cylinder, 2 cycle or 1-16 cylinder, 4 cycle engines using ignition coil and distributor—9 to 32 VDC. Also operates with magneto and 6 VDC systems when used with 9-volt battery and accessories, see 83 Y 909-D., below.

Red reference pointer may be preset to any rpm—shows when to shift gears or when maximum torque is developed. Calibrates from 60-cycle house current. In 2 models—positive or negative ground. (All late-model U.S. cars are negative ground.) Black aluminum housing has glare-free brushed chrome trim. Includes all parts, mtg. base and strap. $4\frac{7}{8} \times 3\frac{1}{4} \times 3\frac{7}{8}$ " 3 lbs.

83 Y 944-D. Negative Ground Model..... **21.95**
83 Y 980-D. Positive Ground Model..... **21.95**
83 Y 909-D. 9-Volt Battery and Accessories. 2 oz. **1.50**



For Positive or
Negative-Grounded
Automobiles.



For Boats with
Outboard Engines
or Magneto Systems.

12-Volt Ammeter-Voltmeter Kit

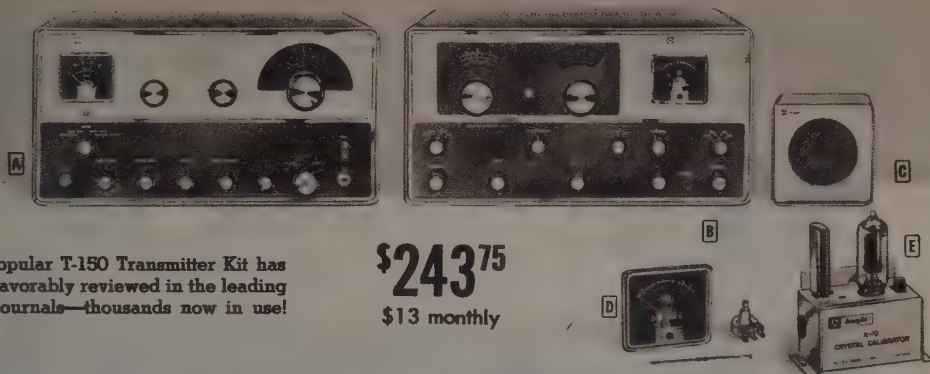
Know the condition of your car's electrical system—replace those red-light indicators with this Knight-Kit 12-Volt Ammeter-Voltmeter. Large, illuminated meter scales show amperes from -30 to +30 with 0 center scale, and DC volts from 9 to 15. For use with either negative or positive-grounded systems. Meters mount on chrome-plated panel for under-dash installation. White numerals on Aqua background. $2\frac{7}{8} \times 6\frac{1}{2} \times 2\frac{1}{2}$ ". With cables for all cars except rear-engines. 2 lbs.

83 Y 711-D..... **9.95**

All Knight-Kits Are Supplied with Solder

Selected ***knight-kit*** Amateur Station Outfits

OUR GREATEST BUYS IN HAM GEAR—BUILD THEM YOURSELF AND SAVE!



popular T-150 Transmitter Kit has been favorably reviewed in the leading ham journals—thousands now in use!

Deluxe Station Outfit Featuring Knight-Kit T-150A and R-100A

Knight-Kit T-150A 150-Watt Peak AM/CW Transmitter Kit with Built-in VFO for 80 through 6 Meters

Knight-Kit Model R-100A Deluxe Amateur Communications Receiver Kit

Knight-Kit S-8A Matching Speaker Kit

Knight-Kit S-Meter Kit (Builds into R-100A)

Knight-Kit Crystal Calibrator Kit (Builds into R-100A and Gives Markers every 100 kc)

Our package price saves you \$10.00 off the cost of items purchased separately. The T-150A operates at 150 watts peak AM/CW input on the 80-10 meter bands; and also covers 6 meters. Stable built-in VFO covers all bands; all-stage cathode keying provides clean, chirpless CW and permits perfect "break-in" work—no high-

voltage at key terminals; controlled carrier screen modulation for fine audio quality and top, on-the-air "talk power." Frequency spotting allows "zeroing in" without a signal on the air. Adjustable pi-network matches 40-600 ohm antennas. R-100A tunes 540 to 30 mc in 4 bandswitched ranges; has calibrated bandspread on 80 through 10 meters; better than $1\frac{1}{2}$ μ v sensitivity for 10 db S/N ratio; all-mode Q multiplier has 60-db notch and continuously variable selectivity from 300 cps to 4½ kc. Uses exalted BFO injection for SSB; VR tube in B+ supply for HF oscillator; delayed AVC and ANL. S-meter reads up to 40 db over S9. Special-design 4" speaker for best voice or code reception. T-150A and R-100A for 110-125 v., 60 cycle AC. 72 lbs.

23 YU 711-3D. \$13 Monthly.....243.75

Deluxe Transmitter Outfit Featuring Knight-Kit T-150A

\$163.95

\$9 monthly

Outfit includes the Model P-2 SWR/Power Meter Kit, recently favorably reviewed in national Ham publications.

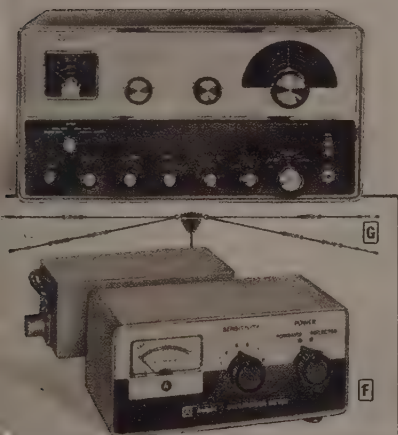
A Knight-Kit T-150A 150-Watt Peak AM/CW Transmitter Kit with Built-in VFO for 80 through 6 Meters

F Knight-Kit Model P-2 SWR/Power Meter Kit

G Hy-Gain Model SBDT Trap Antenna (80 to 10 Meters)

You save \$6.90 off the cost of individual items purchased separately. The T-150A operates at 150 watts peak AM/CW on the 80 through 10-meter bands and also covers 6 meters. Has: single-knob bandswitching; 4-way panel meter; clean, chirpless keying with no HV at key; adjustable pi-network for 40-600 ohm antennas; frequency spotting; and plenty of TVI-proofing. P-2 reads SWR from 1:1 to 20:1; relative power from 0 to 10. May be left in line as constant monitor. 2-unit design, coupler and indicator. Use for unbalanced 50-72 ohm line. 1 kw rating, 1.8 to 432 mc. Hy-Gain SBDT covers 80 through 10 meters, SWR of less than 1.5:1. Handles 1 kw PEP, 500 watts AM. Includes traps, insulators, and wire. Wt., 42 lbs.

23 YU 712-3D. \$9 Monthly.....163.95



See More Knight-Kit Amateur Gear on the Following Pages

ALLIED 63



knight-kit

AMATEUR GEAR

T-150 ACCLAIMED IN HAM JOURNALS

"... Appears to fill a niche that hasn't earlier been occupied by the many transmitter kits now on the market... audio quality is excellent... The keying is very good... We were quite favorably impressed by the excellent packing and the way parts are segregated for easy identification... Strikes a nice balance between modern styling... and technical flavor."—**QST**

"... Unusually handsome... fully satisfactory... a fine low-cost transmitter."—**73**



T-150A 150-Watt AM/CW Transmitter Kit

- ✓ Single-Knob Bandswitching
- ✓ Adjustable Pi-Network for 40 to 600-Ohm Antennas
- ✓ VR Tube in B+ of VFO Oscillator for Stable Operation
- ✓ Buffer Stage for Isolation
- ✓ Standby, Remote Standby and Power Takeoff Plugs

\$119⁹⁵

\$6 monthly

- 150 Watts Peak AM/CW Input on the 80 through 10-Meter Amateur Bands
- Controlled-Carrier Modulation for Maximum Audio
- Stable VFO with Planetary Drive, "Spot" Switch
- Thorough TVI Shielding, Filtering, Bypassing
- Clean, Chirpless Keying—No HV Across Key

SPECIFICATIONS

Band Coverage: 80, 40, 20, 15, 10, 6 meters. Modes: controlled carrier AM phone or CW. Power Outputs: 100 watts peak AM/CW on 80 through 20 meters; 90 watts peak AM/CW on 10 meters; 20 watts peak AM/CW on 6 meters. Frequency Control: internal VFO or optional crystals. Output Coupling: pi-network. Output Impedance: 40-600 ohms (coaxial connector). Dimensions (HWD): 8½x17x10½". Power Requirements: 110-125 volts, 60 cycle AC. Power Consumption: AM, 280 watts; CW, 350 watts.

The latest version of the rig that was hailed by happy owners everywhere, the T-150A is loaded with features for the Ham who demands a clean "big signal" at top watts-per-dollar. Controlled-carrier screen modulation gives fine audio quality with negligible distortion, plenty of mike gain, and top "talk power." Rock-stable VFO, fully calibrated for 6 bands, has indirectly illuminated scales, backlash-free planetary drive, and spot switch to let you "zero in" without putting a signal on the air. A 4-stage simultaneous-cathode keying circuit offers clean CW for break-in work—ideal for contests, traffic and DX chasing.

Peak AM/CW inputs are 150 watts on 80 through 10 meters. 20-watts output on 6 meters. Power supply uses 2 silicon diodes in a full-wave voltage doubler, saving filament power and eliminating heat. Has heater/plate voltage takeoff to power auxiliary gear, plus 117 v. for antenna relay; PCIM mike connector; key jack. Takes Hi-Z dynamic or crystal mike. Gray metal case matches R-100A, right. Tubes: 12BY7, 12AX7, 6CL6, 6DR7, OA2, 7189, 2-6146's. With wire, solder, instructions. Less mike, key. 35 lbs.

83 YU 409-D. \$6 Monthly..... **119.95**



HIGHLY STABLE VFO
Drifts just 200 cps in 10-30 minute warmup. Practically stands still afterwards.



6146's IN FINAL
Pair of parallel-connected 6146's in the final RF amplifier are conservatively operated for long life.



4-WAY PANEL METER
Reads buffer and final grid current, final plate current, and relative RF power output.



"73" MAGAZINE REVIEWS R-100A

"... You will find the components . . . of first class quality throughout . . . No drift in the BFO was noticeable . . . allows excellent SSB reception . . . The overall construction of this kit was straightforward and easy . . . No discernable hum at all in the output . . . You will be amazed at the way you can pull a signal out from a big pileup of QRM (with the Q multiplier) . . . If you want a general coverage job I doubt if you can touch a better receiver for the \$100 asked."



Shown With Optional S-Meter

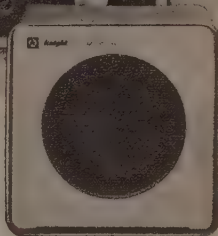
R-100A Communications Receiver Kit

\$99⁹⁵

\$5 monthly

- Better Than $1\frac{1}{2}$ μ v Sensitivity for 10 db S/N Ratio
- Built-in Q Multiplier Works on All Modes; Peaks Desired Signal or Nulls QRM—Has 60 db Notch
- Continuously Variable Selectivity 300 cps- $4\frac{1}{2}$ kc
- 540 kc to 30 mc in 4 Bandswitched Ranges
- Bandspread for 80-10 Meters—Tunes 160, Too

S-8A
Speaker
Kit



- ✓ Printed Circuit Bandswitch
- ✓ Exalted BFO Injection
- ✓ Calibrated Electrical Bandspread on 5 Ham Bands
- ✓ Delayed AVC Circuit

SPECIFICATIONS

Sensitivity: Better than $1\frac{1}{2}$ μ v for 10 db S/N on bands B, C and D; 4 μ v on A. **Variable Selectivity:** Q multiplier, in Peak position, provides continuously adjustable IF bandpass from 300 cps to $4\frac{1}{2}$ kc at 6 db down; in Null position, provides 60 db notch. **IF:** 455 kc. **Tube Complement:** 6BZ6 RF, 6BH8 mixer/HFO, 6AZ8 1st IF, 6AZ8 2nd IF/1st audio, 6BC7 detector-AVC-ANL, 6AW8A BFO/audio output, 12AX7 Q multiplier; 6X4 full-wave rectifier, OB2 voltage regulator. **Antenna Impedance:** 50-300 ohms (screw-terminal connectors). **Audio Output Impedance:** 8 ohms. **Dimensions (HWD):** $9\frac{1}{2} \times 17\frac{1}{2} \times 9\frac{1}{2}$ ". **Power Required:** 110-125 volts, 60 cycle AC; 45 watts.

An outstanding achievement in communications receiver engineering, this superb kit has earned phenomenal acceptance—there's no receiver like it in its price class! Has all the selectivity, sensitivity and stability of far more expensive factory-wired units. PC bandswitch and etched circuit boards eliminate critical "lead dress," assure operating stability, and simplify instruction. Built-in Q multiplier works on CW/AM/SSB to null QRM with deep, 60-db notch or to peak desired signals. Selectivity is continuously variable from 300 cps to $4\frac{1}{2}$ kc at 6 db down.

Exceptional overall sensitivity—better than $1\frac{1}{2}$ μ v for 10 db S/N—on 40 and 80 it's actually $\frac{1}{2}$ to $\frac{3}{4}$ μ v! Regulated B+ on HFO holds drift to minimum. Close tolerance, slug-tuned Hi-Q coils assure easy alignment. Also has: exalted BFO for SSB; front-panel phone jack; vernier planetary drive—no dial stringing; ANL; antenna trimmer—lots more. Gray metal case matches T-150A. With parts and step-by-step instructions for ease of assembly. Less accessories, below. Shpg. wt., 32 lbs.

- 3 Y 406-D. \$5 Monthly. 99.95
- 3 Y 424-D. S-8A Speaker Kit. Specially designed 4" speaker peaks voice frequencies: Styled to match R-100A. $6\frac{7}{8} \times 6\frac{3}{4} \times 5\frac{3}{8}$ ". 3 lbs. 9.95
- 3 Y 423-D. S-Meter Kit. Reads up to +40 db over S9. 1 lb. 12.95
- 3 Y 256-D. Crystal Calibrator Kit. Builds into R-100A or R-55A. Gives 100-kc markers. $3\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ ". Trimmer zero-beats WWV. 1 lb. 10.95



knight-kit

AMATEUR GEAR

Enjoy Amateur Radio More



Get in on the fun of Hamming with this little beauty. Punches out a signal you'll be proud of!

T-60 6-Band 60-Watt AM/CW Transmitter Kit

BEST VALUE LOW-POWER TRANSMITTER ANYWHERE!

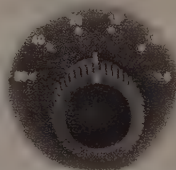
\$49⁹⁵

\$5 monthly

- Phone and CW on the 80 through 6-Meter Bands
- 60 Watts Peak AM/CW Input—Slightly Less on 6
- Clean, Chirpless Keying—No High Voltage at Key
- Easy-to-Build First Rig for Novice, Technician, Ham-to-Be—Great for Seasoned Amateurs, too!

Newcomer to Ham Radio? If so, the compact T-60 is for you. Feature for feature and dollar for dollar, there's nothing like it in its price class! Even the old timer will find it a dandy "second rig" for standby, emergency, and portable use. Highlights: phone and CW on 6 bands; controlled carrier AM; adjustable pi coupler to match 40-600 ohm antennas; clean, simultaneous-keying with bias resistor (no HV at key); "tune" position to protect 6DQ6B final during tune-up; filtering and bypassing to reduce TVI; fused silicon-rectifier HV power supply—many other extras! Runs 60 watts peak AM and CW input on 5 bands, slightly less on 6 meters. Final works "straight through" on all bands but 6 meters, where it doubles. Requires VFO or crystals (3.5-mc types for 80, 7-mc types for 40-10, 8 mc-types for 6). Rear panel provides 410 VDC and 6.3 VAC to power accessories; has relay switching terminals. With all parts, tubes, wire, solder, easy-to-follow instructions. Less key, mike, crystals. Shpg. wt., 15 lbs.

83 YX 294-D. \$5 Monthly. **49.95**



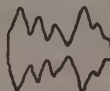
SINGLE-KNOB BANDSWITCHING

You flip the handy bandswitch control to move from band to band with speed and ease.



RELATIVE POWER OUTPUT METER...

makes "tune up" procedure a breeze! Just tune for maximum deflection.



CONTROLLED CARRIER SCREEN MODULATION...

Built-in modulator gives top "talk power" on AM phone bands.

T-60 EARNS FINE MAGAZINE REVIEWS

"... One could not help but be impressed at the value... an asset to the appearance of the shack. Good quality components... easy to tune and operates with a smoothness that a Novice will appreciate and an old timer will enjoy."—CQ

"If you're a brand-new Novice... it's an ideal 'first rig' kit that you can grow with... Easy to assemble and even easier to get on the air, the T-60 performs handsomely... A neat and uncluttered chassis."—Popular Electronics

"... Most watts per cubic inch... Neat-looking package, with a modern shape factor and styling."—QST

SPECIFICATIONS

Band Coverage: 80, 40, 20, 15, 10 and 6 meters. Modes: controlled-carrier AM phone or CW. Power Inputs: 60 watts peak AM/CW input on 80 through 10 meters; slightly less on 6 meters. Frequency Control: crystals or external VFO. Tube Complement: 6FH8 crystal oscillator/buffer multiplier, 6DQ6B final RF amplifier, 12AX7 speech amplifier/1st audio, 6DR7 driver/modulator. Output Coupling: pi-network. Output Impedance: 40-600 ohms (coaxial connector). Cabinet Dimensions (HWD): 5x12x7". Power Requirements: 110-125 volts, 60 cycle AC. Power Consumption: 110 watts.

With a Do-It-Yourself Knight-Kit — and Save!



Economy R-55A 5-Band Receiver Kit

\$64⁹⁵

\$5 monthly

- Covers 530 kc-36 mc and 47-54 mc in 5 Bands
- Easy-to-Build "First Set" for Shortwave Listeners, Hobbyists and Beginning Amateurs
- Built-In 3½" Speaker; Calibrated Bandsread
- Fused Transformer Supply with Filter Choke

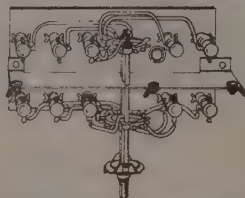
Stylish 5-band shortwave receiver kit just right for the "armchair adventurer," electronics fan, or Ham beginner! The R-55A, created for reliable around-the-world listening, tunes the broadcast and short-wave bands from 530 kc to 36 mc, plus 47 to 54 mc. Six separate direct reading scales are calibrated for the 80 through 6-meter Ham bands. Flywheel-loaded tuning, bandsread control and huge illuminated slide-rule dial—all contribute to smooth, effortless station selection. Self-contained 3½" speaker provides sharp voice and CW reproduction; a front-panel headphone jack for private listening. Fused, transformer-type power supply with filter choke gives excellent regulation and stability. Also has: AVC to reduce fading and "burning"; noise limiter; BFO for code reception; antenna trimmer; standby switch. Provision for crystal calibrator, below. Gray metal cabinet matches other Knight kits on facing page. With solder, instructions. Wt., 23 lbs.

YU 417-D. \$5 Monthly..... **64.95**
 Y 256-D. Crystal Calibrator Kit. Gives 100-kc markers. 1 lb..... **10.95**
 Y 257-D. Dual 2000-Ohm Headset. With phone plug. 1 lb..... **2.50**

SPECIFICATIONS

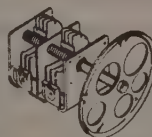
Tuning Ranges: band A, 530-1900 kc; band B, 1.8-6.3 mc; band C, 6-14.5 mc; band D, 11.5-33 mc; band E, 47-54 mc. **Image Rejection:** 42 db at 80 meters; 14 db at 6 meters. **Tubes:** 6BE6 Mixer/oscillator, 6BZ6 1st IF amplifier, 6AW8A 2nd IF amplifier/audio driver, 6AL5 detector-AVC/noise limiter, 6AW8A BFO/audio output; EZ90 rectifier. **Intermediate Frequency:** 1650 kc (2 stages of amplification). **Cabinet dimensions (HWD):** 8½x14¾x10¼". **Power Requirements:** 110-125 volts, 60 cycle AC. **Power Consumption:** 60 watts.

MODULAR COIL ASSEMBLIES



Two modular coil assemblies add to the ease of assembly and provide excellent coil-bank shielding. Coils mount on "L" brackets, and assemble before mtg.

ELECTRICAL BANDSREAD



Bandsread capacitor "spreads out" crowded signals on the 80, 40, 20, 15, 10 and 6-meter Amateur bands. Edge-lit slide-rule dial is separately calibrated in mc on each band.

TWO I.F. AMPLIFIER STAGES



The R-55A's sensitive superbet circuit uses 2 stages of IF amplification for sharp selectivity. Intermediate frequency of 1650 kc offers a high degree of image rejection.

knight-kit

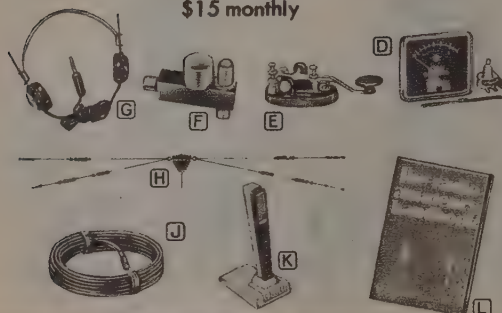
AMATEUR GEAR

Pace-Setting Values in Powerful Amateur Outfit



\$309⁰⁰

\$15 monthly



T-150A/R-100A STATION OUTFIT

- A** Knight-Kit T-150A Transmitter Kit, Built-in VFO
- B** Knight-Kit R-100A Communications Receiver Kit
- C** Knight-Kit S-8A Matching Speaker Kit
- D** Knight-Kit S-Meter Kit (Builds into R-100A)
- E** Johnson Adjustable Hand Key with Shorting Switch
- F** Dow-Key DK-60 115-Volt AC Antenna Relay
- G** Dual Headphones with Phone Plug
- H** Hy-Gain SBDT 80-10 Meter Trap Doublet Antenna
- J** 50 Feet of RG8/U Coax Cable and Connectors
- K** Electro-Voice 727 Mike, Stand and Cable
- L** ARRL Radio Amateur's Handbook (Current Edition)

Our outfit price saves you \$10.36. A perfect choice for the Ham who wants a moderately powered station setup at a budget price! The T-150A punches out a great signal on 80-10 meters (Also covers 6). Has controlled-carrier screen modulation for maximum talk-power. Trap doublet for 80-10 has low SWR. R-100A tunes 540 kc to 30 mc has calibrated bandspread 80-10. 90 lbs.

23 YU 708-4D. \$15 Monthly	309.00
83 YU 409-D. T-150A. Kit Alone. 35 lbs.	119.
83 YU 406-D. R-100A Kit Alone. 32 lbs.	99.
83 Y 424-D. S-8A Speaker Kit Alone. 3 lbs.	9.
83 Y 423-D. S-Meter Kit Alone. 1 lb.	12.
83 Y 256-D. Crystal Calibrator. 1 lb.	10.



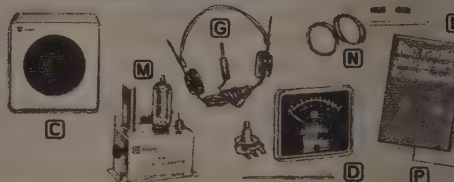
\$186⁹⁵

\$10 monthly



\$139⁹⁵

\$7 monthly



T-150A TRANSMITTER OUTFIT

- A** Knight-Kit T-150A Transmitter Kit, Built-in VFO
- H** Hy-Gain SBDT 80-10 Meter Trap Doublet Antenna
- F** Dow-Key DK-60 115 Volt AC Antenna Relay
- E** Johnson Adjustable Hand Key with Shorting Switch
- J** 50 Feet of RG8/U Coax Cable and Connectors
- K** Electro-Voice 727 Mike, Stand and Cable
- L** ARRL Radio Amateur's Handbook (Current Edition)

Our outfit price saves you \$6.33. The T-150A operates at 150 watts peak AM/CW input on 80 through 10 meters. Highly stable VFO has planetary drive for easy, backlash-free tuning; calibrated for all bands covered, including 6 meters. Controlled-carrier screen modulation for maximum AM talk-power. 53 lbs.

23 YU 709-3D. \$10 Monthly	186.95
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DELUXE R-100A RECEIVER OUTFIT

- B** Knight-Kit R-100A Communications Receiver Kit
- C** Knight-Kit S-8A Matching Speaker Kit
- D** Knight-Kit S-Meter Kit (Builds into R-100A)
- M** Knight-Kit Crystal Calibrator Kit
- G** Dual Headphones with Phone Plug
- N** Outdoor Antenna Kit with Hardware
- L** ARRL Radio Amateur's Handbook (Current Edition)
- P** ARRL Amateur Station Logbook

Our finest Ham receiver outfit. Tunes 540 kc-30 mc 4 bandswitched ranges. Calibrated bandspread on 80 10 meters. Better than 1½ uv sensitivity for 10 db S/All-mode Q multiplier has 60-db notch, continuous variable selectivity 300 cps to 4½ kc. 41 lbs.

23 YU 710-3D. \$7 Monthly	139.95
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et Started in Amateur Radio with an Outstanding Do-It-Yourself Knight-Kit Ham Station Outfit

T-60/R-55A STATION OUTFIT

Knight-Kit T-60 60-Watt Transmitter Kit
Knight-Kit R-55A Communications Receiver Kit
Dual Headphones with Phone Plug
Electro-Voice 727 Mike, Stand and Cable
Low-Key DK-60 115 Volt Antenna Relay
Johnson Adjustable Hand Key with Shorting Switch
Your Choice of Two Transmitting Crystals: 3515,
3725, 3880, 7020 and 7160 kc.
10 Feet of RG8/U Coax Cable and Connectors
ARRL "Understanding Amateur Radio" Book
Specially selected package for the newcomer to
Amateur Radio—our outfit price saves you \$7.87. T-60
50 watts peak AM/CW input on 80 through 10 meters
(slightly less on 6). Has: pi-network output to match 40-
ohm antenna; clean, chirpless keying—no HV at key
terminals. R-55A tunes 530 kc to 36 mc and 47 to 54 mc
bands. Has calibrated electrical bandspread on all
bands. Has built-in speaker; BFO; noise limiter;
antenna trimmer; superhet circuit with two 1650
kc IF stages. Specify two crystal frequencies. 52 lbs.
T-60 713-3D. \$8 Monthly..... 149.95
R-55A 294-D. T-60 Kit Alone. 15 lbs..... 49.95
R-55A 417-D. R-55A Kit Alone. 23 lbs..... 64.95



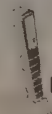
\$149⁹⁵
\$8 monthly



A



B



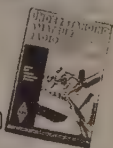
D



E



F



J



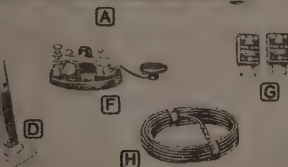
H



G



\$73⁹⁵
\$5 monthly



A

F



G

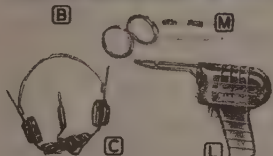
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J



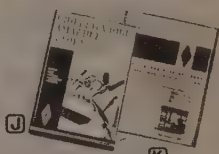
\$73⁹⁵
\$5 monthly



B

C

M



J

K

T-60 TRANSMITTER OUTFIT

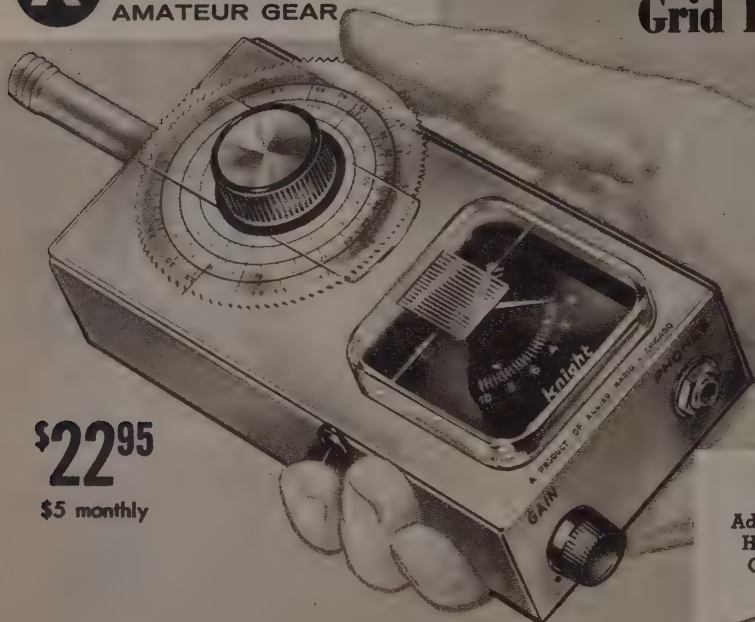
Knight-Kit T-60 60-Watt Transmitter Kit
Your choice of Two Transmitting Crystals: 3515,
3725, 3880, 7020, and 7160 kc
Electro-Voice 727 Mike, Stand and Cable
Johnson Adjustable Hand Key with Shorting Switch
10 Feet of RG8/U Coax Cable and Connectors
ARRL "Understanding Amateur Radio" Book
The "first rig" and our outfit price saves you \$3.97.
T-60 works the 80 through 6-meter bands with 60
watts CW and peak AM input (slightly less on 6). Has:
single-knob bandswitching; efficient peak carrier-con-
trolled modulation; clean, simultaneous cathode keying;
easy tune-up. Specify 2 crystals. 27 lbs.
T-60 714-2D. \$5 Monthly..... 73.95

DELUXE R-55A RECEIVER OUTFIT

- B Knight-Kit R-55A Communications Receiver Kit
- M Outdoor Antenna Kit with Mounting Hardware
- G Dual Headphones with Phone Plug
- L Wen Model 100 Soldering Gun
- K ARRL Amateur Station Logbook
- J ARRL "Understanding Amateur Radio" Book

Top shortwave listener's outfit. R 55A tunes 530 kc to
36 mc and 47 to 54 mc in 5 bands. Calibrated band-
spread on all Ham bands, 80 through 6 meters. Has built-
in speaker; BFO; noise limiter, AVC; antenna trimmer;
fused, transformer-type power supply; and standby
switch. Superhet circuit uses two 1650-kc IF stages for
top selectivity. Shpg. wt., 28 lbs.
23 YU 715-2D. \$5 Monthly..... 73.95

Extremely Compact
Only 1 5/8" Deep...
Fits In Your Hand



\$22⁹⁵

\$5 monthly

DELUXE FEATURES!

Adjustable
Hairline
Cursor



Color-Coded
Coils Match
Dial Ranges

- Continuous Overlapping Coverage from 1.5 to 300 Megacycles
- Easy to Read—Each Range Scale Is Color Coded to Match Coil
- Use As A Signal Generator, Absorption Wavemeter, Oscillator
- Undamped Meter Movement Assures Virtually Instant Response

Hams, experimenters—you'll find hundreds of uses for this invaluable instrument. Serves as a grid-dip oscillator to determine resonant frequency, as well as an oscillating detector, signal generator and absorption wavemeter. Covers 1.5 to 300 mc in 6 overlapping ranges. Calibrated dial and movable hairline cursor allow precise setting and highly accurate readings. Excellent for receiver alignment, adjustment of wave traps, finding parasitic oscillations, adjusting antennas, etc. Ranges are color-coded to match coils. Has undamped meter movement for quick response; variable sensitivity control for opti-

mum grid current adjustment. Stable oscillation—entire band may be tuned without re-adjusting gain control. Rugged molded socket holds plug-in coils securely—plug in any standard-spaced crystal, and the G-30 becomes a crystal oscillator. Phone jack permits use as a modulation monitor, regenerative detector. Also determines inductance and capacitance. Uses a 6AF4A oscillator, selenium rectifier. 6 3/8 x 3 1/4 x 1 5/8". With plastic case and 6 coils, all parts. For 110-125 v., 50-60 cycle AC. Shpg. wt., 3 lbs. 83 Y 721-D. \$5 Monthly..... 22.95

Low-Cost 100-Kc Crystal Calibrator Kit

\$10⁹⁵

- Gives Frequency Marker Every 100 Kc to 35 mc
- Convenient Trimmer Permits Zero-Beating With WWV
- Builds Into Knight-Kit R-100A and R-55A Receivers
- Also Fits Other Receivers; Only 3 1/2 x 2 1/2 x 1 1/2"

Low cost, secondary frequency standard produces harmonics every 100 kc usable up to 35 mc. Ideal for the Knight-Kit R-100A, R-55A and other receivers. 100-kc harmonics give check points extremely accurate in the 160 to 10 meter Ham bands and international shortwave bands. Has trimmer for zero-beating with WWV; on-off switch; hermetically sealed 100-kc crystal. Requires 6.3 v. AC or DC @ 150 ma, and 150 to 300 v. DC @ 6 and 3 ma respectively. 3 1/2 x 2 1/2 x 1 1/2". Shpg. wt., 1 lb. 83 Y 256-D..... 10.95





NEW! From
knight-kit

**CODE PRACTICE
OSCILLATOR KIT**

\$7⁹⁵

**Includes
Hand Key**



A Perfect "Helping Hand" for Amateurs-to-Be, Scouts, Hobbyists, & Shortwave Listeners

LC-1 Transistor Code Practice Oscillator

MAKES IT EASY AND LOADS OF FUN TO LEARN CODE

response to tremendous demand, Knight-Kit introduces the finest-value code practice kit ever offered. Inspiring Amateurs, Scouts, students, and hobbyists—will appreciate this portable, transistorized instrument that makes learning International Morse Code just effortless. The professional-type adjustable hand gives you "the feel" of on-the-air operation right away. Watch the built-in code flasher or listen to the audible tone. Built-in loudspeaker gives plenty of volume even for group practice. Like operating privately? Plug high-impedance headphones (optional, at right) into the conveniently located phone jack. Advanced

design two-transistor circuit uses a readily available "C" size battery for power. Under normal use, one battery lasts several months. Since the LC-1 is completely portable, you can practice wherever you go—indoors or out. Take it with you to meetings and use it for group practice. Assembly is a breeze, too. Follow Knight-Kit's picture-clear step-by-step instructions and you're ready to go in a few short hours. Black bakelite case with aluminum panel and charcoal gray trim. 2x6¹/₄x3³/₄". With battery, key, Shpg. wt., 2³/₄ lbs.

83 Y 432-D..... 7.95
83 Y 257-D. 2000-Ohm Dual Headset, Plug. 1 lb....2.50



Get Started in Amateur Radio

Anyone, after passing an FCC exam on Morse Code and basic electronics theory, can get in on this rewarding hobby. Allied's staff of experienced Radio Amateurs has selected the packages on this page to help you prepare for these exams. It takes study and practice, but in no time at all you're ready for a lifetime of fun and enjoyment—communicating with other Hams around the world.

VALUE-PACKED CODE PACKAGES WITH THE LC-1

PACKAGE "A". You get the Knight-Model LC-1 Code Practice Oscillator Kit, plus 4-book A.R.R.L. set "Gateway to Amateur Radio". Set includes: How To Become A Radio Amateur; Learning the Radio-Telephone Code; Radio Amateur's License Manual; Operating An Amateur Radio Station. 4 lbs.
Y 629-2D..... 9.45

PACKAGE "B". Consists of Package "A", at left, PLUS Allied's own exclusive 10-lesson code course on a 12", 33¹/₃ rpm long-play record. Has 5 lessons per side, takes you from very start up to 15 words-per-minute code speed. Complete with 20-page instruction manual. Shpg. wt., 5 lbs.
23 Y 630-3D..... 13.75

Outfit Your Ham Station With Easy-to-Build Knight Kits



knight-kit

AMATEUR GEAR

P-2 EARNS FINE MAGAZINE REVIEW
 "Assembly of the unit is very clearly shown in the detailed assembly manual... no real problems were encountered... worked perfectly... no adjustments were required... Relative power scale is quite convenient for transmitter tuning."—73

"In a price class that makes it difficult item to duplicate with store-bought parts."—QST



In Kit
Form

\$15⁹⁵

Popular Model P-2 SWR/Power Meter Kit

- Reads Standing Wave Ratio and Relative Power
- Covers 1.8 to 432 Mc—Ham Bands, CB
- Handles A Full Thousand Watts of RF Power

- Negligible Loss—Leave it in Line Permanently
- Flexible 2-Unit Design—Coupler and Indicator
- Also Works Well With Low-Powered Transmitters

Outstanding Features

Flexible 2 Unit Design

Full Kilowatt Capacity

Requires No Power/Batteries

Reads SWR from 1:1 to 20:1

Can be Left in Line

as Constant Monitor

Accuracy Better than 10%

Has Coax Connectors

For Unbalanced 50-72 Ohm

Lines—Amateur and CB

Range from 1.8 to 432 Mc

Negligible Insertion Loss

Has Sensitivity Adjustment

Be sure you're getting the most from your transmitter and antenna system. The easy-to-build Model P-2 SWR/Power meter provides a constant check of your rig's efficiency. Measures relative power fed to the antenna as standing waves reflected back from it. Lets you make your own matching adjustments between line and driven element for maximum antenna efficiency. Covers 1.8 to 432 mc—Amateur bands, Citizens Band, other communications services. Has a full kilowatt power capacity, works well with low-powered transmitters, too. May be permanently left in the transmission line with negligible power loss. Uses popular SO-239 coax connector. Flexible 2-unit construction—coupler and indicator units connected by 4-foot shielded cable. Requires no AC power or batteries. Styled in gray satin—matches the Knight-Kit T-60 and T-150A transmitters. With all parts and instructions. Shpg. wt., 3 lbs.

83 Y 627-D. In Kit Form..... 15.95

83 Y 546-D. As Above, but factory assembled..... 22.95

SPECIFICATIONS

Frequency Range: 1.8 to 432 mc (includes Amateur bands.)

Minimum RF Power: 45 watts at 1.8 mc, 1/2-watt at 432 mc for full-scale meter deflection.

Maximum RF Power: 1 kilowatt.

Input/Output Impedance: 52 or 72 ohms.

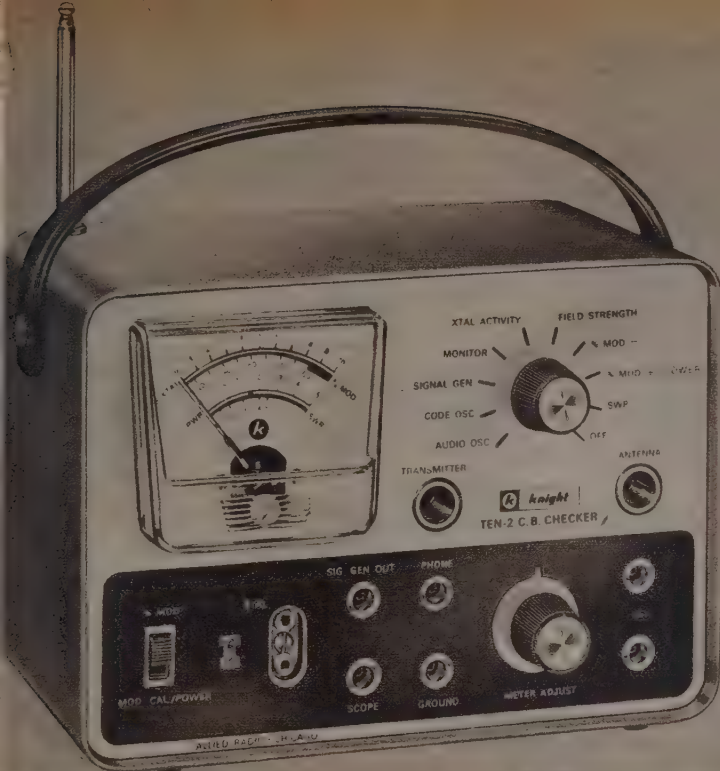
Accuracy: better than 10%.

Meter Sensitivity: 100 μ a. full scale.

Meter Scales: Relative Power, 0-10; SWR, 1:1 to 20:1.

Sizes: coupler, 2x5x2 1/2"; indicator, 2 1/8x 6 1/4x3"; 4-ft. connecting cable.

Connectors: two SO-239 coaxial.



NEW! knight-kit

Portable, Transistorized 10-Function Citizens Band Checker

In Kit Form
\$25⁹⁵
\$5 monthly

Knight-Kit Model Ten-2 Citizens Band Tester

- Assures Top Performance From Your Equipment
- Great for Fast, Accurate Trouble-Shooting
- Use for Alignment, Tuneup, and Calibration
- Compact, Transistorized, Completely Portable
- Easy-to-Read 2" Meter, Built-In Dummy Load
- Complete With Long-Lasting 9-Volt Battery

Be sure you're getting top operation from your Citizens Band transceiver. This new, portable, transistorized wonder lets you easily and quickly evaluate and improve performance in either fixed or mobile installations. CB operators, technicians and servicemen will find it invaluable for fast, accurate trouble-shooting in the shop or field.

Actually ten precision instruments in one, the "Ten-2" measures, with 100% accuracy, relative standing-wave-ratio of antenna arrays and transmission lines, per cent of either positive or negative modulation, RF power output, relative field strength, and relative crystal activity. May also be used as a signal monitor, crystal-controlled rf generator, audio generator, and code-practice oscillator.

The large, easy-to-read 2" meter has four scales and a sensitive movement. Front panel sockets accept any standard or miniature Citizens Band transmitting crystal. Front-panel jacks are provided for a key, headhoney output, scope output, rf generator output, as well as Motorola-type sockets for CB antenna and transceiver inputs. The Knight-Kit "Ten-2" also includes a durable built-in telescoping 40" antenna.

Two-transistor amplifier/oscillator circuit. Charcoal-gray cabinet, brushed aluminum panel, black and satin knobs. Cabinet size, 5 $\frac{3}{8}$ x7 $\frac{5}{8}$ x4 $\frac{1}{4}$ ". With 9-volt battery and instructions. Shpg. wt., 4 lbs.

3 Y 823-D. In Kit Form. \$5 Monthly.....	25.95
3 Y 561-D. Factory Assembled. \$5 Monthly.....	39.95
1 H 199-D. PL-259-To-Motorola Plug Adapter. 6 oz.	44c

Performs 10 Functions:

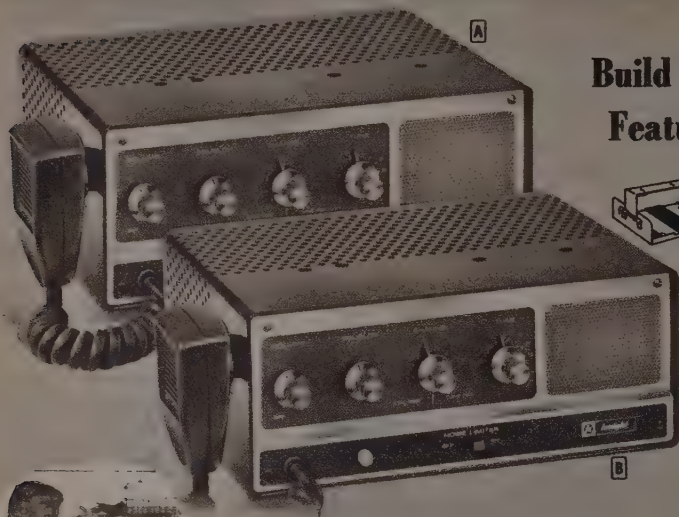
1. Measures Relative SWR
2. Measures Output Power
3. Measures Percentage of Positive Modulation
4. Measures Percentage of Negative Modulation
5. Measures Field Strength
6. Measures Relative Crystal Activity
7. Use As Signal Monitor
8. Use As Crystal-Controlled RF Generator
9. Use As Audio Generator
10. Use As Code-Practice Oscillator



knight-kit

CITIZENS RADIO

Easy to Use. Just Push the Button and You're in Contact With Other Stations in Cars and Trucks.



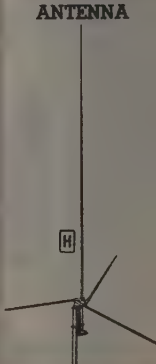
**Deluxe Base-to-Mobile
Citizens Band Outfits**

As low as **\$186⁹⁵** \$10 monthly

Easily Installed in
Any Type of Vehicle



**ALTERNATE
ANTENNA**



SAVE UP TO \$10.71 ON DELUXE BASE-TO-MOBILE CITIZENS BAND OUTFITS

Save \$10.43. Complete outfit for reliable home or office-to-vehicle communications. Includes:

- A** Knight-Kit C-22 Universal Transceiver Kit With Built-In Power Supply for 115 VAC and 12 VDC
- B** C-22 Standard Transceiver for 115 VAC Only
- C** Mobile Under-Dash Mounting Bracket
- D** Two Transmit and Two Receive Crystals
- E** RG-58/U Coaxial Cable and Connectors
- F** B&K/Mark AHW11-6 6' Mobile "Heliwhip" with Double-Chain Bumper Mount
- G** Antenna Specialists M-81 "Magnum" Base-Station Ground-Plane Antenna

C-22 AND ACCESSORIES

- 83 YX 802-D. Universal C-22 Kit. For 110-125 v., 60 cycle AC or 12 v. DC. 19 lbs. \$5 Monthly.....69.95
- 83 YX 801-D. Standard C-22 Kit. For 110-125 v., 60 cycle AC only Shpg. wt., 18 lbs. \$5 Monthly.....64.95
- 83 YX 009-D. Mobile Mtg. Bracket. For C-22. 6 lbs. .4.95
- 83 YY 046-D. Transmitting Crystals. (C-22 accommodates 5.) Wt., 3 oz. Specify channels 1-22. EACH 2.50
- 83 YY 045-D. Receiving Crystals. (C-22 accommodates 5.) Wt., 3 oz. Specify channels 1-22.EACH 2.50
- 83 Y 042-D. Civil Air Patrol Receive Crystal.....2.50
- 83 Y 043-D. Civil Air Patrol Transmit Crystal.....2.50

You also get Allied's own "Understanding And Using Citizens Band Radio" Book. C-22s offer 5 switch-selected crystal positions for transmit or receive, plus manual tuning of all 23 channels. Have full 5-watt transmitter sections and sensitive superhet receiver sections. "Heliwhip" offers fullest mobile operating efficiency. "Magnum" provides 6 db gain. 66 lbs. Express. 23 YZ 703-5D. Specify Channel. \$10 Monthly 186.95

ALTERNATE OUTFIT—Save \$10.71. Above, but with (H) Hy-Gain CLR-II Ground-Plane Antenna in place of "Magnum." Provides 8 db gain. Shpg. wt., 65 lbs. 23 YU 704-5D. Specify Channel. \$10 Monthly 192.25

AVAILABLE SEPARATELY

- 90 CZ 396-D. Hy-Gain GP-500 Ground Plane Antenna Shpg. wt., 6 lbs. Shipped express.....14.95
- 83 YZ 201-D. Hy-Gain BPRW 102" Mobile Whip and Bumper Mount. 12 lbs. Shipped express.....10.32
- 86 SX 422-D. Hy-Gain CLR-II Colinear Ground-Plane Antenna. Wt., 10 lbs.....29.95
- 90 CU 278-D. Antenna Specialists M-81 Magnum Base Station Antenna. 13 lbs.....24.32
- 83 YU 259-D. B&K/Mark AHW11-6 6' Mobile Heliwhip and Double-Chain Bumper Mount. 5 lbs.....18.90

Save on Knight-Kit C-22 Citizens Band Outfits



ECONOMY MOBILE STATION OUTFIT

Save \$4.57 off catalog prices. Reliable, on-the-go communications with other mobile stations or with base stations. Includes: (A) Knight-Kit C-22 Universal Citizens-Band Transceiver Kit for 115 VAC or 12 VDC (Base and Mobile Use); (B) One Transmitting and (C) One Receiving Crystal; (D) Mobile Under-Dash Mounting Bracket; (E) Hy-Gain Model BPRW 102" Stainless-Steel Mobile Whip Antenna with Universal Bumper Mount; 15' of RG-58/U Coaxial Cable, and connectors; plus Allied's Book, "Understanding And Using Citizens Band Radio." Shpg. wt., 40 lbs. Express.

YZ 701-3D. Specify Channel. \$5 Monthly. .86.95



ECONOMY BASE STATION OUTFIT

Save \$4.13 off catalog prices. It's a complete Citizens Band base station kit at low cost. Just assemble the easy-to-build Knight-Kit C-22, and you're ready to enjoy reliable CB communications. Includes: (G) Knight-Kit C-22 Standard Citizens-Band Transceiver Kit for 115 VAC; (H) One Transmitting and (I) One Receiving Crystal; (K) Hy-Gain Model GP-500 Base Station Ground-Plane Antenna (L) 50 Ft. of RG-58/U Coaxial Cable, and connectors; plus Allied's Book, "Understanding And Using Citizens Band Radio." Hy-Gain GP-500 offers excellent omnidirectional coverage. 33 lbs. Express.

23 YZ 702-3D. Specify Channel. \$5 Monthly. .83.50



DELUXE BASE STATION OUTFIT

Save \$5.28 off catalog prices. Includes: (M) Knight-Kit C-22 Standard Citizens-Band Transceiver Kit for 115 VAC; (N) One Transmit and (P) One Receive Crystal; (S) 50 Ft. of RG-58/U Coaxial Cable, and connectors; plus Allied's Book, "Understanding And Using Citizens Band Radio." Shpg. wt., 36 lbs. Express.

YZ 706-3D. Specify Channel. \$5 Monthly. .92.50

TERNATE OUTFIT. Save \$5.56. As above, but with Hy-Gain CLR-II Ground-Plane Antenna in place of Magnum." Shpg. wt., 35 lbs.

YU 707-3D. Specify Channel. \$5 Monthly. .97.80



DELUXE MOBILE STATION OUTFIT

Save \$5.15 off catalog prices. Our most efficient C-22 mobile station. Top communications in any location. Includes: (W) Knight-Kit C-22 Universal Citizens-Band Transceiver Kit for 115 VAC or 12 VDC (Base and Mobile use); (X) One Transmit and (Y) One Receive Crystal; (Z) Mobile Under-Dash Mounting Bracket; (AA) Mark Mobile Model AHW-11-6 6-Ft. Fiberglass Heliwhip with Double-Chain Universal Bumper Mount; (BB) 15 Ft. of RG-58/U Coaxial Cable, and Connectors; plus Allied's Book, "Understanding And Using Citizens Band Radio." Shpg. wt., 33 lbs.

23 YU 705-3D. Specify Channel. \$5 Monthly. .94.95



knight-kit

CITIZENS RADIO

CB Outfits Featuring C-555 Walkie-Talkie Kits

\$22⁹⁵

\$5 monthly

**OUTFIT
NO. 1**



Sensitive
Superhet
Receiver

Up to $\frac{3}{4}$
Mile Range

Crystal-
Controlled
Transmit
and Receive

Each
\$19⁹⁵

\$5 monthly

C-555 WALKIE-TALKIE KIT

No license needed; 100 mw input; 5 transistor, 1 diode superhet circuit; speaker; red case. 7x3 $\frac{1}{2}$ x2". Less battery, crystals, below. 1 lb.

83 Y 822-D. \$5 Monthly. 19.95

83 YY 034-D. Transmitting Crystal. Specify Channel 2-22. Wt., 2 oz. 1.95

83 YY 041-D. Receiving Crystal. Specify Channel 2-22. Wt., 2 oz. 1.95

83 Y 038-D. Civil Air Patrol Receiving Crystal. 2 oz. 1.95

83 Y 039-D. Civil Air Patrol Transmitting Crystal. 2 oz. 1.95

83 Y 014-D. 9-V. Battery. 4 oz. 35¢

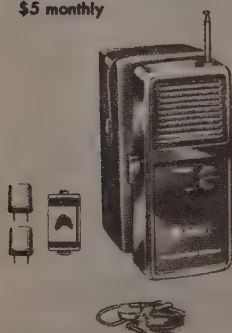
83 Y 092-D. Carrying Case. 6 oz. 1.98

83 Y 094-D. Earphone. 3 oz. 79¢

\$25⁴⁵

\$5 monthly

**OUTFIT
NO. 2**



**OUTFIT
NO. 3**

\$45⁹⁰

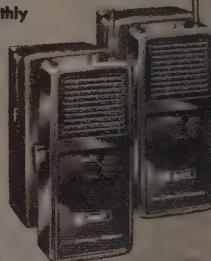
\$5 monthly



\$52⁹⁵

\$5 monthly

**OUTFIT
NO. 4**



OUTFIT NO. 1

Includes: One Knight-Kit C-555 5-Transistor Walkie-Talkie Transceiver Kit; Your Choice of One Receive and One Transmit Crystal; and One 9-Volt Battery. Specify Crystal—Channel 2-22. Shpg. wt., 3 lbs.

23 Y 720-1D. \$5 Monthly. 22.95

OUTFIT NO. 2

As above, but also includes: Carrying Case and Rugged Strap; and Earphone with Plug for private listening. Specify Crystal—Channel 2-22. Wt., 4 lbs.

23 Y 721-1D. \$5 Monthly. 25.45

OUTFIT NO. 3

Consists of: Two Knight-Kit C-555 5-Transistor Walkie-Talkie Transceiver Kits; Your Choice of Two Receive and Two Transmit Crystals; and Two 9-Volt Batteries. It's

everything you need for highly sensitive and dependable 2-way communications up to $\frac{3}{4}$ mile. Specify Crystals—Channel 2-22. Shpg. wt., 5 lbs.

23 Y 722-1D. \$5 Monthly. 45.90

OUTFIT NO. 4

Save \$4.34. As above, but you also get: Two Carrying Cases; Two Earphones with Plugs for private listening; One $\frac{1}{8}$ x4" Screwdriver; One Ungar 40-Watt Soldering Iron; Miller Wire Cutter and Stripper; and Allied's Understanding and Using CB Radio Book. Complete—for building and using your walkie-talkies. Specify Crystals—Channel 2-22. Shpg. wt. 7 lbs.

23 Y 723-2D. \$5 Monthly. 52.95

For description and actual size color photo of C-555 Walkie-Talkie, see inside front cover.

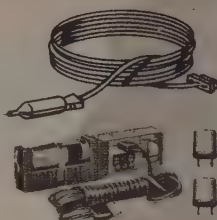
Knight-Kit Deluxe Citizens Band Outfits

FEATURING C-22 AND KG-4000A KITS

KG-4000A 1-WATT PORTABLE CB OUTFIT

is a budget-priced Knight-Kit exclusive—your own portable communications set in one easy-to-build package! Our outfit price saves you \$9.85 off the cost of items purchased separately. Quality components include: **One Knight-Kit KG-4000A 1-Watt CB Walkie-Talkie Transceiver Kit**; Your Choice of **One Transmit and One Receive Crystal**; **Combination Rechargeable Battery Charger**; **AC Power Supply Kit**; and an **Adapter for 12-Volt Car Use**. KG-4000A power input to final is 1 watt—10 times more than average walkie-talkies. Gives up to 5-mile working range. Has superhet receiver, 1 μ v sensitivity; adjustable squelch; ANL, complete crystal control. Selectivity: 3 db kc at 6 db down; adjacent channel rejection: 30 db. *Specify Crystals—Channel 1-22.* Wt., 8 lbs.

23 YX 716-2D. \$5 Monthly..... **74.95**



Save \$9.85

\$74.95

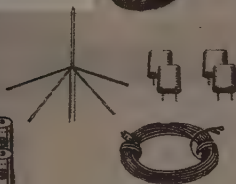
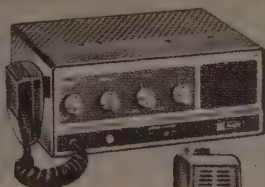
\$5 monthly



Save \$5.14

\$146.95

\$8 monthly



ALTERNATE OUTFIT

mobile

Save \$6.03 **\$149.95**

\$8 monthly



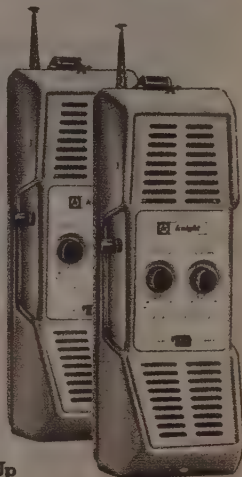
Save \$4.99

\$124.95

\$7 monthly



True Portability and Up to a 5-Mile Range



C-22/KG-4000A BASE/PORTABLE SET

Includes: **Knight-Kit C-22 Transceiver Kit** for 110-125 v. AC; **Knight-Kit KG-4000A 1-Watt Walkie-Talkie Kit**; choice of 2 Transmit and 2 Receive Crystals—1 Each for C-22 and KG-4000A; Eight 1½-Volt "C" Batteries; 100% Gain GP-500 Ground Plane Antenna; RG58/U Coaxial Cable and Connector. Our outfit price saves you \$5.14. Shipped express. *Specify Crystals—Channel 1-22.* 38 lbs.

23 YZ 718-4D. \$8 Monthly..... **146.95**

ALTERNATE MOBILE/PORTABLE SET

Similar to above, except C-22 is universal type for both 110-125 v. AC and 12 VDC. 102" mobile whip antenna and bumper mount in place of ground plane. Includes mobile mounting bracket for C-22. You save \$6.03. *Specify Crystals.* 46 lbs. Express.

23 YZ 719-4D. \$8 Monthly..... **149.95**

COMPLETE 1-WATT KG-4000A OUTFIT

A complete portable Citizens Band outfit with up to a 5-mile working range. Here's what you get: **Two Knight-Kit KG-4000A 1-Watt Walkie-Talkie Kits**; Sixteen 1½-Volt Size "C" Flashlight Batteries; Your Choice of Two Transmit Crystals and Two Receive Crystals. Our outfit price saves you \$4.99 off the cost of items purchased separately. KG-4000A's have 1 watt input to final—10 times more than average walkie-talkies. Have superhet receivers; adjustable squelch and ANL. *Specify Crystals—Channel 1-22.* Shpg. wt., 15 lbs.

23 YX 717-3D. \$7 Monthly..... **124.95**

83 Y 038-D. Civil Air Patrol Receive Crystal..... 1.95

83 Y 039-D. Civil Air Patrol Transmit Crystal..... 1.95

See page 4 for complete description of the C-22.

See page 6 for complete description of KG-4000A.

Buy Your Knight-Kit CB Gear with Our Credit Fund Plan

ALLIED 77



KNIGHT

CITIZENS BAND
EQUIPMENT

NEW! KN-2560 10-Watt PE

TOP VALUE! GIVES YOU GREATER RANGE AND



Includes
Microphone
and Cables

Look at These Features! **\$214⁹⁵** \$11 monthly

- Uses Unique Double-Sideband Reduced-Carrier Transmission System for Maximum Range
- Fully Compatible With Any Existing Citizens Band Station Equipment
- Frequency Synthesis Circuitry Provides Full Crystal Control on All 23 CB Channels
- Sensitive Dual-Conversion Superhet Receiver Has Crystal Filter, Squelch, ANL
- Delta Tuning Receiver Circuit Brings In Stations That Are ± 3.5 Kc Off-Frequency
- Large Illuminated 2-Scale Panel Meter Reads "S"-Units and Relative Output Power
- Universal Power Supply Permits 115 VAC Fixed-Station or 12 VDC Mobile Operation

A BASE PACKAGE

Save **\$229⁹⁵** \$12
\$16.03 monthly

Includes: Knight KN-2560 CB Transceiver; Antenna Specialists M-81 Ground-Plane Antenna; 100 Ft. of RG-58/U Coax Cable; 2 Connectors.



B MOBILE PACKAGE

Save **\$222⁹⁵** \$12
Up to \$9.59 monthly

Includes: Knight KN-2560 CB Transceiver; Choice of Antenna Specialists M-103 CB BC Cowl-Mount Whip or M67 Roof-Mount Whip; Cescro Noise Filter.



Double-Sideband Transceiver

THE ULTIMATE IN CB PERFORMANCE



Cancels Out
Unwanted Back-
ground Noise



Synthesis Circuit
For 23-Channel
Crystal Control

FINAL



Final Tune Control
Lets You Peak for
Maximum Output

Δ TUNE



Δ Tuning Brings
stations ±3.5-Kc
off-frequency

SQUELCH



Adjustable Squelch
Control Provides
Silent Standby



Big 2-Scale Meter
Reads "S"-Units
and RF Output

KNIGHT KN-2560 SIDEBAND CB TRANSCEIVER

Every feature you've ever wanted in a deluxe Citizens Band Transceiver. Incorporates the newest engineering developments that give you more meaningful power than ever before. Even under the most adverse conditions, the new Knight KN-2560 provides sure-fire, reliable communications. Delivers the maximum power within FCC regulations, and thanks to special double-sideband, reduced-carrier modulation system, it actually increases your effective operating range. And the KN-2560 may be used in conjunction with any existing CB transceivers—it's fully compatible.

Receptive dual-conversion superhet receiver section offers $\frac{1}{2}$ μ v. sensitivity for 10 db S/N ratio. Selectivity is 3.5 kc at 6 db down; image rejection is 90 db; and adjacent channel rejection is 70 db. Delta tuning circuit brings in stations ±3.5 kc off-frequency. Adjustable squelch can be set to operate on signals as weak as 0.1 μ v. Noise filter cuts out ignition and other interferences. Built-in $\frac{1}{4}$ " speaker, external speaker terminals.

Transmitter section has 10-watt PEP modulation capability and peak-to-peak output that matches 30-75 ohm antennas. Size, $5\frac{1}{2} \times 11\frac{1}{2} \times 9\frac{3}{4}$ ". Universal power supply for 110-125 v., 60 cycle AC or 12 v. DC. In press-to-talk noise-cancelling mike and coil cord, transmit and receive crystals for 23 channels. Wt., 15 lbs.

Model 467-D. \$11 Monthly. 214.95
Model 324-D. Mobile Mounting Bracket. 3 lbs. 9.95

A BASE STATION PACKAGE—SAVE \$16.03

Everything you need for deluxe CB communications. Includes: Knight KN-2560 CB Transceiver; Antenna Specialists M-81 Ground Plane Antenna; 100 Ft. of RG-58/U Coaxial Cable; Connectors. Bidirectional ground-plane provides effective 6 db gain. Has full wave radiator, 54" radials. Fits most masts. 30 lbs.

Model 287-3D. \$12 Monthly. 229.95

B MOBILE PACKAGES—SAVE UP TO \$9.59

Notch mobile packages. Include: Knight KN-2560 CB Transceiver; Antenna Specialists M-103 Citizens-Band/Broadcast-Band Whip Antenna with cables and plugs, or M-67 Roof-Mount Whip Antenna with cable and plug; Cesco Noise Filter. 15 lbs.

Model 288. With M-103 Antenna. \$12 Monthly. 222.95

Model 034. With M-67 Antenna. \$12 Monthly. 222.95

Get Your Knight CB Gear On Allied's Credit Fund Plan



NEW!



\$94⁹⁵ Each
In Pairs

Knight Model KN-2550 5-Watt CB Transceiver

- All Electronic Antenna Switching
- 6-Channel Full Crystal Control
- Receiver Also Tunes Manually



Nuvistor
RF Stage



Transmitter Output
and S-Unit Meter



Sensitive Noise-
Cancelling Mike



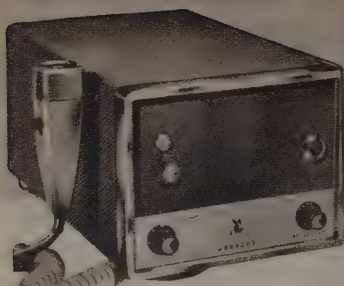
Crystal
Switch

New and improved, now even better than ever before! Successor to the KN-2500 offers 6 transmit/receive crystal positions, plus 22-channel manual receiver tuning with spot switch. Superhet receiver has squelch; ANL, AVC, etc. 5-watt press-to-talk transmitter matches any antenna. Output/S-unit meter. With mike, coil cord, crystals for one channel. Size, $5\frac{1}{2} \times 11\frac{1}{2} \times 9\frac{3}{4}$ ". For 110-125 VAC. Less DC packs, below 12 lbs.

90 SX 456-D. EACH 99.95
Save \$10. 2 for 189.90
90 SX 680-D. 6 VDC Pack. 4 lbs. 11.95
90 SX 679-D. 12 VDC Pack. 4 lbs. 11.95

For a More Detailed Description of the KN-2550 and for Big Savings on Citizens Band Station Packages, See the Back Cover of This Catalog

Save Up to \$21.31 on These Antenna Packages



JOHNSON "MESSENGER II"

\$169⁹⁵

Tunes 23 Channels
Crystal Control on
10 CB Channels

Compact transceiver has sensitive superhet receiver with high adjacent-channel rejection, noise limiter, AVC and positive-action squelch control. 5-watt transmitter is 100% modulated. Selector chooses up to 10 crystal-controlled transmit-receive channels. 10 tubes, 3 diodes. 5 $\frac{5}{8}$ x7x11 $\frac{3}{8}$ ". With mike/coil-cord, crystals for one channel. 16 lbs. \$9 Monthly.

86 SX 002. For 110VAC/12VDC. 169.95

86 SX 003. For 110VAC/6VDC. 169.95

23 SU 289-4D. 110VAC/12VDC Unit Plus Pkg. No. 1. 23 lbs. 170.95

23 SU 290-3D. 110VAC/12VDC Unit Plus Pkg. No. 2. 25 lbs. 174.95

23 SU 291-4D. 110VAC/6VDC Unit Plus Pkg. No. 1. 23 lbs. 170.95

23 SU 292-3D. 110VAC/6VDC Unit Plus Pkg. No. 2. 25 lbs. 174.95

PKG. #1—MOBILE



**Save
\$10.69**

Complete—\$11.69
Value—\$1 With
any Transceiver on
this Page.

Includes: efficient Antenna Specialists Model M-101 102" stainless steel whip with cadmium-plated spring and swivel-base body mount; 20 ft. of RG58/U coaxial cable for mobile transmission line; 1 PL-259 coaxial connector; and Cescro Model 3-30 30-amp tunable noise filter to stop noise in mobile equipment caused by generator brushes.

PKG. #2—BASE

Save \$17.00

Complete—\$22.00 value—\$5 with any transceiver on this page. Base-station antenna outfit includes: Antenna Specialists Model MC-27 ground plane; 100 ft. of RG58/U coaxial cable; 2 PL-259 connectors. Top-quality ground-plane Antenna with 108" solid aluminum radiator and radials, provides all-directional coverage. U-clamps supplied except either 1" pipe or 1 $\frac{1}{4}$ " tubing.



HALLICRAFTERS CB-3A

\$159⁹⁵

Double Conversion—
Crystal-Controlled
Transmit and Receive

Popular transceiver with provision for crystal-controlled transmit-receive channel. Receiver offers 6-kc selectivity and 1 μ sensitivity; has dual limiters, adjustable squelch. Neutralized 5-watt transmitter has TVI filter, link-coupled output. 5 $\frac{1}{2}$ x12x8". With mike, transmit-receive crystals for ch 11. 14 lbs. \$8 Monthly.

90 SU 411. 110VAC/12VDC. 159.95

90 SU 454. 110VAC/6VDC. 159.95

90 S 417. HA-9 S-Meter Kit. 1 lb. 8.95

23 SU 293-4D. 110VAC/12VDC CB-3A Plus Pkg. No. 1. 21 lbs. 160.95

23 SU 294-3D. 110VAC/12VDC CB-3A Plus Pkg. No. 2. 23 lbs. 164.95

23 SU 295-4D. 110VAC/6 VDC CB-3A Plus Pkg. No. 1. 21 lbs. 160.95

23 SU 296-3D. 110VAC/6VDC CB-3A Plus Pkg. No. 2. 23 lbs. 164.95



NEW!

MULTI-PRODUCTS CITI-FONE CD-5A

Latest version of the famous CD-5 Citi-Fone transceiver has all the features of its predecessor plus heavy-duty power supply, "noise-immune" squelch circuit with sharp cut-off characteristic, mike preamplification, and transmitting audio that develops full envelope modulation. Superhet receiver section has high sensitivity and selectivity, and automatic noise limiter. Transmitter operates at maximum legal power. Front-panel switch selects any one of 5 channels—both receiver and transmitter are crystal controlled. Power plug fits into car cigar lighter—permits easy mobile operation. Size, 4 $\frac{1}{2}$ x8x11". Supplied with press-to-talk ceramic mike, power cords for AC and DC, and transmit-receive crystals for one channel. Power supply is for 110-120 v., 50-60 cycle AC, or 12 v. DC. Wt., 13 lbs.

86 SX 372-D. \$7 Monthly. 139.50

23 SU 297-4D. CD-5A Plus Pkg. #1. Shpg. wt., 20 lbs. 140.50

23 SU 298-3D. CD-5A Plus Pkg. #2. Shpg. wt., 22 lbs. 144.50



RCA MARK VIII

\$149⁵⁰

Efficient 5-watt transceiver offering provision for 9 crystal-controlled transmit-receive channels plus vernier receiver tuning of all 23 CB channels. Highly selective superhet receiver has adjustable squelch, AVC, noise limiter; dial is calibrated in channel numbers and frequencies. 3 $\frac{1}{2}$ x11 $\frac{1}{4}$ x8". Built-in power supply is for base station operation. With ceramic push-to-talk mike, power cord and channel 7 crystals. Less mobile supplies, below. For 115 v., 60 cycle AC. Wt., 10 lbs.

86 SX 075. \$6 Monthly. 149.50

86 SX 077. 12 VDC Power Supply. 4x7x3 $\frac{1}{2}$ ". 7 lbs. 19.95

86 SX 078. 6 VDC Power Supply. 4x7x3 $\frac{1}{2}$ ". 7 lbs. 19.95

23 SU 299-4D. Mark VIII Transceiver Plus Antenna Pkg. No. 1. Less DC supplies. 17 lbs. \$7 Monthly. 150.50

23 SU 200-3D. Mark VIII Transceiver Plus Antenna Pkg. No. 2. Shpg. wt., 19 lbs. \$7 Monthly. 154.50

When You Buy a Citizens Band Transceiver



PKG. #3—MOBILE

CADRE MODEL 510A

199⁹⁵

Dual Conversion—Full
5-ch. Crystal Control
Plus Vernier Tuning

proved version of 510. 18 transistors and 8
ides for low current drain—ideal for base
d mobile. Features all-channel vernier
tuning and provision for 5 crystal-controlled
nsmit-receive channels. Dual-conversion
ceiver has $\frac{1}{2}$ μ v sensitivity, squelch,
lter, phone jack. 5-watt transmitter has
pping, pi-network. $3\frac{1}{2} \times 1\frac{1}{2} \times 5\frac{1}{2}$ ". With
ss-to-talk mike, ch. 11 transmit-receive
rtals, mobile mounting bracket, power
rds. For 115 v., 60 cycle AC, or 12 v. DC.
pg. wt., 11 lbs.

SX 257-D. \$10 Monthly..... 199.95

SU 201-3D. Cadre 510A Plus Pkg. No. 3.

pg. wt., 25 lbs. \$11 Monthly..... 200.95

SU 202-3D. Cadre 510A Plus Pkg. No. 4.

pg. wt., 33 lbs. \$11 Monthly..... 204.95

0-1 PORTABLE PACK. Case for Cadre
0A; batteries, below. Has charger, tele-
oping whip. $4\frac{1}{2} \times 2\frac{1}{2} \times 6$ ". 3 lbs.

S 005. \$5 Monthly..... 34.95

0-2 RECHARGEABLE BATTERY. For portable
ack. Takes 2 (holds 4). 14 oz.

S 006..... 10.95

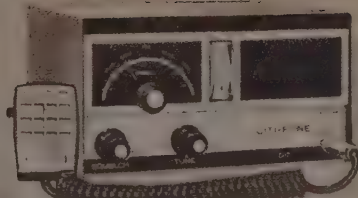
Save \$16.59

\$17.59 value! Includes Cescro
3-30 tunable generator noise
filter plus Antenna Specialists
cowl-mount M-103 CB/BC whip
and coupler—works equally
well for car radio and CBI Auto-
matic switching—has 1-ft. cable
with Motorola plug, 2-ft. cable
with PL-259 plug. Easy to install.

Hy-Gain PKG. #4—BASE

Save \$21.31

A \$26.31 value! Includes
new Hy-Gain "Verti-Pole"
 $\frac{1}{2}$ -wave extended vertical
antenna; 100-ft. RG58/U
coaxial cable; 2 PL-259 con-
nectors. Verti-Pole has 2-dB
transmit gain and up to 8-dB
gain on receive. Shorted
coaxial stub provides excel-
lent 52-ohm match. Dual U-
bolts take masts to $1\frac{1}{2}$ " dia.



MULTI-PRODUCTS CITI-FONE MODEL CD-7

\$189⁵⁰

Full Crystal Control
& All-Channel Tuning

Versatile 5-channel transceiver for both
mobile and fixed-station use. Switch selects
crystal-controlled receive, tunable receive,
or crystal "spot" to find transmit frequen-
cies in receiver. 2-way meter shows signal
strength, power output. Superhet receiver
has vernier tuning, 8 tuned circuits,
squelch, limiter, $\frac{1}{2}$ μ v sensitivity, phone
jack, speaker. 5-watt transmitter section is
high-level modulated. $4\frac{3}{4} \times 9 \times 10$ ". With
mike, 2 power cords, crystals for 1 channel.
16 lbs. \$10 Monthly.

90 SU 418. 110VAC/12VDC..... 189.50

90 SU 419. 110VAC/6VDC..... 189.50

23 SU 203-3D. 110VAC/12VDC CD-7 Plus

Pkg. No. 3. 21 lbs. \$10 Monthly..... 190.50

23 SU 204-3D. 110VAC/12VDC CD-7 Plus

Pkg. No. 4. 29 lbs. \$10 Monthly..... 194.50

23 SU 205-3D. 110VAC/6VDC CD-7 Plus

Pkg. No. 3. 21 lbs. \$10 Monthly..... 190.50

23 SU 206-3D. 110VAC/6VDC CD-7 Plus

Pkg. No. 4. 29 lbs. \$10 Monthly..... 194.50



\$199⁹⁵

HALLICRAFTERS MODEL CB-5

compact transistorized transceiver featuring extremely low current
rain for efficient mobile operation and provision for crystal-con-
trolled transmit-receive on 6 CB channels. Sensitive dual-conversion
ceiver section has automatic noise limiter, adjustable squelch
control, and automatic gain control. Sensitivity is 1 μ v for 10 dB
gnal-to-noise ratio. Transmitter develops 5 watts with full 100%
odulation capability—modulation indicator flashes when trans-
mitter is functioning. Speaker is self-contained. Lightweight and
compact—only $3\frac{1}{4} \times 10\frac{1}{4} \times 8\frac{1}{4}$ ". Employs 18 transistors, 9 diodes and
tubes. Supplied complete with push-to-talk ceramic mike, mtg.
racket, transmit-receive crystals for channel 11, and built-in power
upply for 12 volts DC. Less optional AC power supply, below.
pg. wt., 7 lbs.

SX 074. \$10 Monthly..... 199.95

SX 076. AC Power Supply. For 115 v. 6 $\frac{3}{4}$ lbs. 44.95

3 SU 207-3D. CB-5 Transceiver Plus Antenna Pkg. No. 3. Shpg.

t., 12 lbs. \$11 Monthly..... 200.95

3 SU 208-3D. CB-5 Transceiver Plus Antenna Pkg. No. 4. Less AC

upply. Shpg. wt., 20 lbs. \$11 Monthly..... 204.95



\$189⁵⁰

POLYTRONICS POLY-COMM PC "N"

Designed for continuous heavy-duty work, the PC "N" transceiver
employs dual-conversion reception with a Nuvistor RF stage to
provide better than 0.1 μ v sensitivity for 6 db S/N. Unit has adjust-
able squelch, series-gate noise limiter, carrier modulation indicator,
4" PM speaker, 5 watts input. Provision for 4 crystal-controlled trans-
mit-receive channels. High adjacent-channel rejection. Adjustable
matching for 52 or 72-ohm antennas. 11 tubes; 7 diodes. $7\frac{1}{2} \times 11\frac{1}{2} \times 5$ ".
With press-to-talk mike, cords, mtg. brackets, and built-in power
supply. Wt., 19 lbs. \$10 Monthly.

90 SU 423. For 110VAC and 12VDC..... 189.50

90 SU 424. For 110VAC and 6VDC..... 189.50

Stock No.	PC "N" For	Plus	Wt.	EACH
23 SU 209-3D	110VAC/12VDC	Pkg. #3	24 lbs.	190.50
23 SU 210-3D	110VAC/12VDC	Pkg. #4	32 lbs.	194.50
23 SU 211-3D	110VAC/6VDC	Pkg. #3	24 lbs.	190.50
23 SU 212-3D	110VAC/6VDC	Pkg. #4	32 lbs.	194.50

90 S 425. Poly-Tuner. Adapts Poly-Comm "N" or
"II G" to tune all channels manually. Has S
meter, mtg. bracket. 1 lb..... 34.95

Best Buys in Fixed/Mobile Citizens Band Equipment



HAMMARLUND

MODEL CB-23 TRANSCEIVER

\$249.50

Frequency Synthesizer for Crystal Control on All 23 CB Channels

A top-notch transceiver offering crystal-fixed accuracy on all 23 channels, double conversion, and 2-way power supply for both base and mobile operation. Special ± 3 kc fine tuning control brings in off-channel stations. S meter gives both receive and transmit indication. Also: ANL, adjustable squelch, headphone jack. Transmitter runs 5 watts input, 100% modulated. Size, $5\frac{1}{2} \times 8 \times 10"$. Built in dual power supply is for 110-125 v., 50-60 cycle AC, or 12 v. DC. Complete with push-to-talk mike, mobile mtg. bracket, cables and transmit-receive crystals for all 23 channels. **Less antenna packages, right. Wt., 15 lbs.**

86 SX 037-D. \$13 Monthly.....**249.50**

23 SU 228-3D. CB-23 Plus Pkg. #1. 26 lbs. \$13 Monthly.....**239.95**

23 SU 229-3D. CB-23 Plus Pkg. #2. 21 lbs. \$13 Monthly.....**254.95**

VOCALINE



COMMAIRE PT-27

Self-powered portable transceiver features built-in battery charger, all-channel tunable dual-conversion receiver, AM radio reception, and provision for 4 crystal-controlled CB transmit-receive channels. Efficient low-drain circuit employs 18 transistors; 5 diodes. Receiver has 0.1 μ v sensitivity on CB, fine-tuning control for fixed channels, noise limiter, adjustable sensitivity-squelch, excellent selectivity. One-watt transmitter has antenna tuning control and meter. Battery operates up to 30 hours without recharging. Weatherproof case, $9 \times 4 \times 11"$. With 62" whip, battery, crystals for 1 ch., press-to-talk mike. Charger is for 115 v. AC. 15 lbs.

90 SX 422-D. \$10 Monthly.....**199.95**

PKG. #1—BASE



SAVE
\$17.86

on this complete base station antenna when you buy either the Hammarlund Model CB-23 or the Sonar Model G transceiver

Includes B&K/Mark CBB-1 "Beacon" $\frac{1}{2}$ -wave vertical antenna with 17' radiator, 100' of RG58/U coaxial cable, two PL-259 coaxial connectors.

PKG. #2—MOBILE



SAVE
\$15.24

on this mobile antenna system when you buy either the Hammarlund Model CB-23 or the Sonar Model G

Includes B&K/Mark AHW11-6 fiberglass "Heliwhip" 6' mobile antenna, bumper mount with double chain, 20' of RG58/U, one PL-259 connector.



MODEL "G" TRANSCEIVER

\$229.50

All-Channel Tuning, 8-Ch. Crystal Control, Gated Noise Blanker

Deluxe 5-watt unit with tunable all-channel dual-conversion reception plus provision for 8 crystal-controlled transmit-receive channels. Also: full-wave gated noise blanker, μ v sensitivity, S meter, squelch, $4\frac{3}{4} \times 9\frac{1}{4}"$. For 115 v. AC/12 v. DC. With mtg. bracket, push-to-talk mike, crystals for channel. **Less antenna packages, left. Wt. 10 lbs. \$12 Monthly.**

90SU428-D. For 115VAC/12VDC. **229.50**

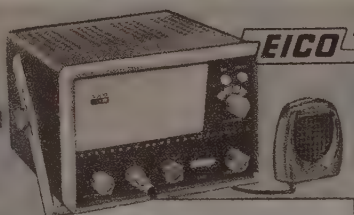
90 SU 429-D. For 115VAC/6VDC.....**229.50**

23 SU 230-3D. 115VAC/12VDC Unit Pkg. #1. 22 lbs.....**239.95**

23 SU 231-3D. 115VAC/12VDC Unit Pkg. #2. 17 lbs.....**234.95**

23 SU 232-3D. 115VAC/6VDC Unit Pkg. #1. 22 lbs.....**239.95**

23 SU 233-3D. 115VAC/6VDC Unit Pkg. #2. 17 lbs.....**234.95**



EICO
Choice of Models for 115VAC or 115VAC/12VDC—Each in Kit Form or Factory Wired

MODEL 770K KIT

Easy-to-assemble transceiver has 5-watt 4-channel, crystal-controlled transmitter and superhet receiver with RF stage, 1 μ v sensitivity, noise limiter and adjustable squelch. Receiver tunes all channels—can be crystal controlled on 1 channel. Transmitter uses plate modulation with automatic limiting, variable pi-network to match any antenna, and metering jack to check power input. 8 tubes; 1 germanium diode. Function indicator lights. With mtg. bracket, press-to-talk mike, 1 transmit crystal. For 110-120 v., 50-60 cycle AC. 13 lbs.

90 SX 137. \$5 Monthly.....**79.95**

90 SX 138. Model 770. Above, factory wired and tested. \$6 Monthly.....**109.95**

90 SX 139. Model 772K Kit. For 115 v. AC/12 v. DC. \$5 Monthly.....**89.95**

90 SX 140. Model 772. Above, factory wired and tested. \$6 Monthly.....**119.95**



HAMMARLUND
HQ-105 TRC COMBINATION TRANSCEIVER/SW RECEIVER

Highly versatile unit combines a sensitive AM/shortwave receiver with a 5-watt transmitter that can be used for CB or retuned to voice operation on the 10-meter Amateur band. Deluxe receiver tunes 540 kc to 30 MHz in 4 bandswitched ranges. Highlights: variable Q multiplier and BFO, calibrated bar spread for the 10-80 meter Ham bands plus CB channel markings, series-type noise limiter, S meter, $1\frac{3}{4}$ μ v sensitivity, stable temperature-compensated HFO, and AVC. Built-in 24-hour clock-timer automatically turns on receiver at any predetermined time. Fully modulated 5-watt transmitter offers push or switch-to-talk operation. Tubes: rectifier, VR. Size, $9\frac{7}{8} \times 16\frac{1}{4} \times 9\frac{1}{4}"$. For 110-120 v., 50-60 cycle AC. **Less transmit crystal, speaker, mike, 40 lbs.**

90 SU 184-D. \$12 Monthly.....**229.50**

90 SU 276-D. HQ-105TRS. Above with speaker in place of clock-timer.....**224.95**

Exclusive, Bonus-Value Packages at Big Savings

\$78.30

on Complete
5-Piece Outfit

SAMPSON

**5-PIECE
BASE STATION OUTFIT**



complete station

\$299⁵⁰

**\$15
monthly**

23-Channel Continuous Tuning
Dual-Conversion Superhet Receiver
Audio-Compressor Prevents Overload
Cathode-Ray Tube Modulation Indicator
Heising 100% Negative Modulation

Deluxe 5-piece base station combination for highly reliable 2-way CB communications. T-110A Transmitter has 5-watt input, 100% Heising negative modulation for best "talk power"; 2½" plate current and voltage meter; front-panel pi-network antenna tuning; 23-channel switching—channel 9 crystal included; calibrate switch; 6x11x7¼". Plus push-to-talk ceramic mike, coil cord. R-101A Receiver has cascade front end, 0.1 μv sensitivity; dual-conversion superhet (10 mc, 455 kc); series-gated noise limiter; squelch; AVC; local-distant switch; 2½" "S"-meter; 3-watt audio output; 6x11x7¼".

Matching speaker is 6x6x6½". 2½" SWR/Power Meter measures RF power output into 52-ohm dummy load; forward antenna current; relative SWR; 3½x3½x4¼". For 110-125 v., 60 cycle AC. Shpg. wt., 38 lbs. \$15 Monthly.

86 SZ 332. 5-Piece Station. 299.50
86 SX 433-D. R-101A Receiver. 14 lbs. 159.95
86 SX 434-D. T-110A Xmitter. 15 lbs. 159.95
90 SS 354. Extra Transmit Crystal. Specify Channel. 1-23. Shpg. wt., 2 oz. 2.50
86 S 442. Meter Alone. 2 lbs. 41.95
86 S 440. Speaker Alone. 4 lbs. 15.95

POLYTRONICS

**23-Channel
Transceiver**

Regency
NEW!

**10-Watt PEP
Sideband Transceiver**



SENIOR "23" MODEL



DELUXE "RANGE GAIN" MODEL

All Electronic Switching Circuitry Eliminates Relays
Frequency Synthesizer Provides 23-Channel Crystal Control
Dual-Conversion Superhet Has Navistor RF and Mixer Stages

the CB perfectionist—superb 2-way base-station or mobile communications are yours with the highly reliable, performance-proven V-Comm Senior "23" Transceiver. Frequency synthesizer circuitry provides crystal-controlled transmit and receive on all 23 channels—no extra crystals required! Unique "Poly-Call" two-way re-controlled squelch silences receiver section until mating unit system calls in. Completely unaffected by transmissions from its not in system, even those operating on the same channel. Message light remains on after unit is called. Dual-conversion (6.0 and 455 kc) superheterodyne receiver section has both navistor (and mixer) sections. S-meter reads received microvolts at antenna, watts output to antenna, and 0 to 100% modulation. Circuitry includes: super-sensitive squelch with range control; variable depth level limiter; all electronic switching circuitry eliminates all relays; tubes and 10 diodes. Legal maximum (5 watt input) transmitter output matches 52 to 72-ohm antennas. Transceiver doubles as a watt amplifier for paging. With press-to-talk microphone, mobile mounting bracket, power cords, and 2625 kc tone filter. 4½x11x8½". For 110-120 v., 50-60 cycle AC or 12 v. DC. 25 lbs. \$U 426. \$17 Monthly.

349.50

- Double-Sideband Reduced-Carrier System—10-Watts PEP Input
- Fully Compatible with All Existing Citizens Band Transceivers
- Dual-Conversion Superheterodyne Receiver with Crystal Filter
- Frequency Synthesizer for Full 23-Channel Crystal Control
- Adjustable Squelch; Automatic Noise Limiter; Delta Tuning

A unique double-sideband reduced-carrier system for 3-4 times normal CB range—fully compatible with all existing CB transceivers. The "Range Gain" delivers maximum power and coverage within FCC regulations. Fully metered transmitter section has 10-watt PEP modulation capability and pi-network output to match 30-75 ohms. Frequency synthesizer provides full crystal-controlled transmitter and receiver operation on all 23 CB channels—no extra crystals to buy! Receiver section has ½-microvolt sensitivity for 10 db signal-to-noise ratio, and excellent selectivity, image and IF rejection figures. Includes adjustable squelch control, automatic noise limiter, dual-conversion superhet design with crystal filter, 2-scale, 3-function panel meter. Delta tuning circuit brings in stations ±3.5 kc off-frequency. With power supply, push-to-talk ceramic mike, crystals for all 23 channels. 5½x11½x9¾". For 110-125 v., 50-60 cycle AC or 12 v., DC. 15 lbs.

86 SX 197. \$14 Monthly. 269.95
86 SX 196. Mobile Mounting Bracket. 3 lbs. 9.95

Get Into CB Radio Now—No Money Down on Our Credit Fund Plan

ALLIED 83

Citizens Band Equipment and Accessories



E.C.I. 30-WATT LINEAR AMPLIFIER

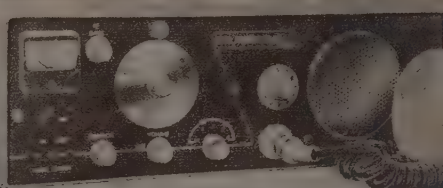
\$159.50

\$8 monthly

- 6146 Final Provides 30 Watts AM Output
- For 25-30 mc Communications Services
- For AM, CW, SSB, FM Transmitters
- One Simple Connection To Transceiver
- Automatic Transmit-Receive Switching

New linear amplifier provides a minimum of 30 watts RF output on the 10-meter Amateur band, channel 23 of the 11-meter Citizens Band (Class "C" permit required), or other services in the 25 to 30 mc range. With simple coil change, also operates on the 50-mc Amateur band. Can be driven by any low-power transceiver providing as little as 1 watt RF output. Amplifies any CW, SSB, FM or AM signal without causing distortion or spurious emissions. Output is 30 watts on AM, 45 watts on CW, SSB or FM. The linear is connected to existing equipment by a plug-in antenna cable—no internal connections needed. Automatic switching of linear is accomplished by an internal relay keyed by the output of transceiver. Has pi-network output circuit for fast, easy tuneup. All controls conveniently grouped on the front panel. Also: regulated bias supply, plate and grid current meters. Controls: Fil. On-Off, Plate On-Off, Drive, Loading, Tuning, Tubes; 6146 RF amplifier, 12AU7 DC amplifier and relay keyer, OC2 and OB2 voltage regulators. Size, 4 $\frac{3}{4}$ x14 $\frac{1}{2}$ x7 $\frac{1}{16}$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

86 SX 237-D. \$8 Monthly.....159.50



E.C.I. COURIER 1M DELUXE CB TRANSCEIVER

\$229.50

\$12 monthly

- Triple Conversion Receiver Section
- 4-Channel Fixed Receive Without Any Crystals Plus 23-Channel Tuning
- All Electronic Switching—No Relays
- Universal 115 VAC/12 VDC Power Supply

Deluxe Citizens Band transceiver for fixed-station or mobile use. Has provision for 12 crystal-controlled transmitting channels, fixed-frequency receiving channels that require no extra crystals plus tunable receive in all 23 channels. Triple-conversion receiver has nuvistor RF amplifier that gives over 0.25 μ v sensitivity, kc selectivity at 6 db down. IFs are 10.04 mc, 1505 kc, and 2 kc. Has efficient series-gate, self-limiting noise limiter, adjustable delayed squelch, RF and audio gain controls. 5-watt transmitter section provides a full 3.4-watt RF output, capable of 100% modulation. Electronic antenna switching. Trap stops TVI. Meter reads units and RF output, helps find transmitting channel. Heavy-duty separately filtered transmitter and receiver power supply. Ceram press-to-talk mike. Front Panel Controls: RF Gain, AF Gain/On-Off, Noise Limiter, S-Meter/RF Switch; Manual Tuning; Receiver Tuning Selector; Transmitter Channel Selector, Squelch. 12 tubes, silicon diode rectifiers. Size, 14 $\frac{3}{16}$ x4 $\frac{3}{4}$ x7 $\frac{1}{16}$ ". For 110-125 v., 60 cycle AC and 12 v. DC. Wt. 19 lbs.

86 SX 236-D. \$12 Monthly.....229.50
86 S 238-D. Dash Mounting Kit. Wt., 1 lb.....

**Boosts Gain—
Lowers Noise**

\$13.95



AMECO PV-27 NUVISTOR CB PREAMPLIFIER

Easy to install—use with any Citizens Band transceiver to improve gain and reduce noise. Utilizes sensitive 6DS4 Nuvistor to improve tuned circuits to provide a 2.0 db noise figure at 27 mc. Requires 110-150 v. DC at 8 ma., and 6.3 v. AC or DC at .135 A.—readily available from most CB transceivers. Factory wired and tested, comes with complete easy-to-follow installation instructions. Size 1 $\frac{1}{2}$ x2x3". Shpg. weight, 1 lb.

86 S 421-D.....13.95

AMECO TVI FILTERS FOR CB

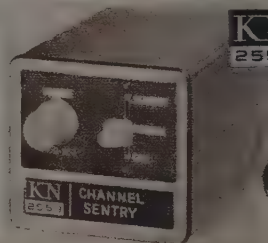
89 S 454. Model LN-2 Low-Pass. Single-section for 52 to 75-ohm coax lines. Has 2 SO-239 connectors and bracket. 4 $\frac{1}{2}$ x2 $\frac{3}{8}$ x1 $\frac{3}{4}$ ". Wt., 1 lb.....3.75

89 S 463. Model HP-45 High-Pass. Attenuates CB signals 20 db. For any TV set with 300-ohm antenna input. 1 $\frac{1}{2}$ x $\frac{7}{8}$ x $\frac{3}{4}$ ". Shpg. wt., 3 oz......95

89 S 470. Allied AE-12 Vinyl Equipment Cover. Not illus. Fits transceivers not exceeding 8x18 $\frac{3}{4}$ x10". Protects from dust, moisture, tampering. 8-gauge plastic, extra-strong seams. 6 oz.....1.75



Each
\$32.50
2 For
\$62.50



NEW KNIGHT KN-2553 "CHANNEL SENTRY"

- Compact 2-Tone Squelch Circuit for Any CB Transceiver
- Four Read Frequencies Provide Up To Six Code Combinations
- Plugs Into KN-2550, Easily Installed In Other Units

2-tone squelch unit for any push-to-talk transceiver. Stops unwanted signals, eliminates listening fatigue. Your receiver remains alert until called by another unit with "Channel SENTRY." Then to sounds, signal lights, receiver is activated and you can speak or listen to the calling station. Light stays on until reset. Can transmit different combinations of dual-tone frequencies. You can change frequencies quickly and easily. Front-panel switch has Standby, Normal and Call positions. Control adjusts speaker volume. Plug into Knight KN-2550, Sonar "E" and "G," RCA Mark VIII. May be wired to any push-to-talk Citizens Band transceiver. With cable a 8-prong plug. Size, 3 $\frac{5}{16}$ x3 $\frac{3}{8}$ x5 $\frac{1}{8}$ ". With complete installation instructions. Shpg. wt., 3 $\frac{1}{2}$ lbs.

86 S 384-D. \$5 Monthly.....32.50
Buy Two—Save \$2.50.....TWO FOR 62

BRC-601 MINIATURE S-METER

Not illus. Compact, fully transistorized. Easy 2-wire connection. 2 $\frac{1}{2}$ x1 $\frac{1}{2}$ x2 $\frac{1}{2}$ ". Less battery, below, 1 lb.....9.95
86 S 035.....
55 J 147. 9-Volt Battery. From Japan. 2 oz.....THREE FOR 6

Best Values in Citizens Band Accessories

"SPEAKEASY" Audio Compressor

\$34.75

Boosts Range of Your CB Transceiver!

Amplifies softer speech sounds, maintains louder sounds and improves readability. Has gain control, modulation meter. 2 1/2x5x4". 3 lbs. \$5 Monthly.

S 501. For 115VAC/12VDC. **34.75**
S 503. For 115VAC/6VDC. **34.75**

B BRC "NOISTOP" IGNITION NOISE FILTER

Removes annoying pulse-type interference from cars, trucks, outboards—gives squelch action too! Easily attached to superhet-type



A "BIG MIKE" MARK I MIKE. Transistor dynamic mike for increased range, rich modulation, improved audio. Variable output/tone controls, squeeze-to-talk switch.—39 db output. 4 1/2x1 3/8" dia. Less batteries—requires 4. 13 lbs.
86 S 378-D. \$5 Monthly. 33.50
55 J 950. Mallory RM-312 Mercury Battery. 4 oz. 2 per pkg. **PER PKG. 48c**

CB transceivers. For use at base or mobile stations. 1 1/2x2 1/2x4". 1 lb.
90 S 106. 16.95



CESCO CONNECTORS

C 89 S 505. "Phantom" Dummy Load. Permits tune-up without radiating. 52 ohms. UHF connector. 6 oz. **1.49**
D 90 S 029. CS Cable Adapter. Has SO-239 socket at one end, auto spade plug other. Wt. 3 oz. **1.29**
E 90 S 030. SC Adapter. PL-259 plug to auto spade socket. 3 oz. **1.29**

F MADE-UP COAX CABLE KITS

Employ low-loss cable with silver-plated connectors. RG58/U except *RG58/U.

Stock No.	Length, Ft.	PL-259 Connector	Wt., Lbs.	EACH
89 S 514	10	Each End	1/2	2.95
89 S 515	10*	Each End	1/2	3.75
89 S 516	20	Each End	1	3.75
89 S 517	20*	Each End	1	4.45
89 S 518	50	Each End	1 1/2	5.75
89 S 519	50*	Each End	1 1/2	6.25
89 S 520	100	Each End	3 1/2	8.95
89 S 522	100*	Each End	3 1/2	14.95
89 S 524	10	One End	1/2	2.45
89 S 528	10*	One End	1/2	2.95
89 S 530	20	One End	1	2.95
89 S 537	20*	One End	1	3.95
89 S 538	50	One End	1 1/2	4.85
89 S 539	50*	One End	1 1/2	7.95
89 S 540	100	One End	3 1/2	7.95
89 S 541	100*	One End	3 1/2	14.45

CESCO 3-30 NOISE FILTER

Eliminates car generator whine—permits quieter Citizens Band reception from mobile stations. Tunable from 3 to 30 mc. Easy to install. With mtg. bracket. Shpg. wt., 5 oz.
89 S 512. 2.95



TEST AND CHECK-OUT EQUIPMENT



NEW! FSI-3 METER

G MONARCH FSI-3 FIELD STRENGTH INDICATOR/SWR BRIDGE. Measures forward/reflected power from 1:1-10:1 SWR—also useful as field strength indicator. Leave in 52-ohm line to monitor output. Ideal for Hams too—takes 1 kw from 2-30 mc. Has 100 μ a meter, $\pm 5\%$ accuracy, 5-section whip. 6 1/4x1 3/4x3". From Japan. 10 oz.
86 S 366-D. 12.95

H MONARCH FSI-1. Field strength meter with base magnet, 200 μ a meter, 10% whip. 2 3/4x3 3/4x1 9/16". Japan. 8 oz.
89 S 507. 6.95

89 S 509. FSI-2. Above for 1.6-150 mc. 4 bands. 12 3/4" whip. 10 oz. **8.40**

J M. C. JONES "MICROMATCH." Checks power output/SWR. May be left in ckt. For 52-ohm coax. 2x4 1/2x2 1/4". 1 lb.
90 S 149. \$5 Monthly. 26.50

CESCO BC-52C "TRASICHECK." Reads output (0-5 watts) and SWR. For -ohm coax. 5 1/2x2 1/2x2 1/4". 10 oz.
S 280. \$5 Monthly. 19.95

COMPLETE LIST OF TRANSMITTING AND RECEIVING CRYSTALS

A comprehensive, easy-to-follow listing of transmitting and receiving crystals for the most popular Citizens Band transceivers, walkie-talkies and other units. Available for any channel from 1 to 22. Be sure to specify Stock No. and

channel desired. Precision made, in hermetically sealed holders. Tolerance: $\pm .005\%$ —meets FCC requirements.

*Indicates no crystal required in the receiver portion of these units. Shpg. wt., 3 oz.

Manufacturer and Model	Stock Number		Manufacturer and Model	Stock Number		Manufacturer and Model	Stock Number	
	Transmit	Receive		Transmit	Receive		Transmit	Receive
eline (Wards) 587	90 SS 368	90 SS 363	Heath CB1	90 SS 366	*	Radson RT70A	90 SS 366	90 SS 358
tion Labs TC1-77	90 SS 350	Special	Heath GW10	90 SS 366	90 SS 360	Raytheon TWR-1	90 SS 368	90 SS 363
ay (All Units)	90 SS 366	90 SS 360	Heath GW21	90 SS 353	90 SS 365	Ray Jefferson	90 SS 366	*
vin (All Units)	90 SS 352	90 SS 375	Heath GW30	90 SS 353	*	RCA (Except Mark VIII)	90 SS 366	90 SS 358
ndix BC-6	90 SS 351	90 SS 358	Heath GW31	90 SS 353	*	RCA Mark VIII	86 SS 602	90 SS 358
owning Mobilair	90 SS 367	*	Int'l. Executive	90 SS 354	90 SS 361	Regency CBM27	90 SS 366	*
owning S-9	90 SS 366	*	Int'l. Exec. 50, 100	90 SS 354	90 SS 374	RME 4303	90 SS 353	*
adre 500	90 SS 394	90 SS 370	Johnson Personal Mess.	90 SS 353	90 SS 375	Shell CB-12	90 SS 366	*
adre 510, 510A	86 SS 600	86 SS 601	Johnson Viking Mess.	90 SS 352	90 SS 362	Sonar Model D	90 SS 366	90 SS 363
tfone CD5, 5A, 6, 7	90 SS 371	90 SS 372	Kaar TR330, 326A, 327	90 SS 354	90 SS 376	Sonar "E", Serial No. 915 and lower	90 SS 377	90 SS 363
ourier I (ECI)	90 SS 373	*	Knight C-22	83 YY 046	83 YY 045	Sonar "E", Serial No. 916 and higher	90 SS 377	90 SS 378
A.W. (All Units)	90 SS 366	*	Knight KG-4000	90 SS 366	90 SS 358	Sonar Model G	86 SS 604	90 SS 378
eward TR910	90 SS 366	*	Knight KN-2500, 2550	90 SS 366	90 SS 358	Transcender 1000	90 SS 352	90 SS 362
ixon (All Units)	90 SS 366	*	Lafayette HE15	90 SS 366	*	Transpace (All Units)	90 SS 368	90 SS 358
co 762 Series	90 SS 371	*	Lafayette HE20	90 SS 366	90 SS 358	Triumph TC-900	90 SS 353	90 SS 375
co 772 Series	90 SS 366	90 SS 356	Lafayette HE29	90 SS 366	90 SS 363	USL R800, TR910	90 SS 366	*
eneral Radiotele-	90 SS 366	90 SS 363	La Salle LA101	90 SS 366	90 SS 363	USL TR1000	90 SS 366	90 SS 358
hone MC-1, 2, 3	90 SS 354	90 SS 363	Lincoln L2700A, 2000A	90 SS 353	90 SS 375	Universal CT2701	90 SS 353	90 SS 375
hone Radiotele. MC-4	90 SS 366	90 SS 357	Lincoln L-2710, Walkie-Talkie	90 SS 366	90 SS 363	Utica T&C MC27	90 SS 366	90 SS 357
lobe CB100	90 SS 366	90 SS 360	Magnavox	90 SS 353	90 SS 375	Vanguard (All Units)	90 SS 352	*
lobe CB200	90 SS 350	90 SS 357	Minifone 400M1	90 SS 353	90 SS 375	Vocaline ED27M	90 SS 367	*
onset G11, 12, 14, 15	90 SS 351	90 SS 358	Minifone 400M2	90 SS 361	*	Wards, See Airline		
rove Electric	90 SS 366	*	Miratel CR117	90 SS 355	90 SS 364	Webster 4-11	90 SS 368	90 SS 358
allcrafters CB2, 3, 5	90 SS 352	90 SS 359	Philmore TC-11	90 SS 371	*	Westron 909	90 SS 366	90 SS 363
allmark (All Units)	90 SS 366	*	PolyComm PC-11, 11G, N	90 SS 366	90 SS 363	WRL ECBK	90 SS 366	*
ammarlund/HQ105TR	90 SS 366	*	Radfon					

Be Sure to Specify Stock No. and Channel Desired. **EACH 2.50**

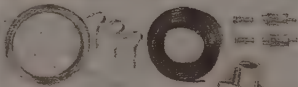
Base Station Antennas for Citizens Band

SPECIAL CITIZENS BAND BASE STATION ANTENNA BARGAINS

CLR-II

44-gain

Save \$5.95...



...on the Hy-Gain UMKW Mounting Kit When You Buy Either the CLR-II Or the M-81 Antenna.

NEW HY-GAIN CLR-II. Omnidirectional, 3.4 db gain—8 db circuit gain. Matches 52 ohms, 1:2-1 SWR. Aluminum. Height, 19"11"; radials, 9'. For 1 1/4 to 1 3/4" mast, 16 lbs.

23 SU 213-2D. CLR-II With UMKW Kit **34.95**

86 SX 422-D. CLR-II Alone, 10 lbs. **29.95**

ANTENNA SPECIALISTS M-81 "MAGNUM." Omnidirectional, effective 6 db gain. 5-section aluminum 207" 1/2-wave radiator, 54" radials. Matches 52 ohms. For most masts, 16 lbs.

23 SU 214-2D. M-81 With UMKW Kit **29.37**

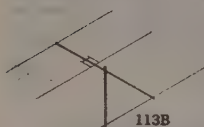
90 CU 278. M-81 Alone, 10 lbs. **24.37**

HY-GAIN UMKW UNIVERSAL MTG. KIT. Includes 50' RG-58/U, 2—PL-259s, roof saddle mount, 30' guy wire, 3 eye-hooks, 2 adapters. Shpg. wt., 6 lbs.

86 SX 396-D. **10.95**

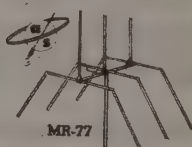
M-81

INCREASE YOUR OPERATING RANGE WITH A DELUXE BEAM ANTENNA



113B

Provide Up to 12.7 db gain; For Vertical or Horizontal Polarization.



MR-77

44-gain

NEW HY-GAIN 115-B. 5-element beam provides 12.7 db gain, 25-db F/B ratio. 52-ohm feed with Beta match. Aluminum construction with hi-particle plastic insulators. 2" dia. boom is 24' long. Longest element, 9'. Turning radius, 14'6". Irridite-treated steel hdw. With mtg. bracket. Shpg. wt., 27 lbs. Shipped express.

86 CZ 389-D. \$5 Monthly. **69.95**

HY-GAIN 113-B. As above, but 3 elements, 9 db gain. 8' boom. Longest element, 16'6". Turning radius, 6'. Wt., 13 lbs.

89 CZ 826. \$5 Monthly. **31.50**

NEW ANTENNA SPECIALISTS MR-77. 3-element beam has separate 52-ohm coax inputs to vertical and horizontal elements. Provides 6 db horizontal and 7 db vertical gain; 15 db F/B ratio. SWR, 1.5 or less. 1 3/4" dia. boom is 10' long. Turning radius, 8'6". All aluminum, metal-to-metal construction. Fits masts to 1 3/4" in diameter. Shpg. wt., 24 lbs. Shipped express.

86 CZ 397-D. \$5 Monthly. **58.75**

Deluxe B&K/Mark CB Antennas for Base Station Use

NEW!

Mark V

"Super-Beacon"

CBB-1 "Beacon"



NEW MARK V. Omnidirectional colinear vertical provides high gain, low radiation angle. Needs no radials. 20' aluminum radiator matches 50 ohms. Accepts PL-259. For 1 3/4" masts, 16 lbs. Express.

86 CZ 406-D. \$5 Monthly. **48.95**

CBB-1 "BEACON" VERTICAL. Unique 1/2-wave antenna requires no radials or skirts, yet provides 1 db gain over standard ground-planes. Has 17' aluminum radiator, fiberglass mounting section and 50-ohm

matching stub. Accepts PL-259. Shpg. 8 lbs. Shipped express.

90 CZ 136. \$5 Monthly. **21.**

"SUPER-BEACON." Full-size, omnidirectional 1/2-wave vertical antenna provides radiation angle, 19' radiator has dielectric coating to reduce precipitation static—proves receiver sensitivity by up to 20 Needs no radials. For 52-ohm line. Acc PL-259. 12 lbs. Shipped express.

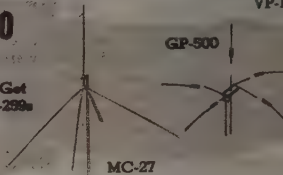
90 CZ 186. \$5 Monthly. **36.**

1¢ Sale

Save \$4.10

ON THREE POPULAR
CB ANTENNAS

Buy Any Antenna, Get
50' RG-58/U, 2—PL-259s
for 1¢ More



MC-27

BONUS OFFER: Get 50' of RG-58/U coaxial cable and two PL-259 connectors for only 1¢ more, when you buy any of the popular Citizens Band antennas. **Save \$4.10.**

NEW HY-GAIN GP-500. Omnidirectional ground-plane provides unity gain. Has 9' aluminum radiator, 9' aluminum radials. Fits 1 3/4" dia. masts. Shpg. wt., 8 lbs.

23 SU 215-2D. GP-500. Plus Bonus Offer. **14.**

90 CU 396-D. GP-500 Alone, 6 lbs. **14.**

ANTENNA SPECIALISTS MC-27. Omnidirectional ground-plane antenna has 108" aluminum radiator and radials that bend to meet 50-ohm lines. Fits 1" to 1 1/4" masts. 7 lbs.

23 SU 216-2D. MC-27 Plus Bonus Offer. **15.**

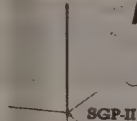
89 CU 817. MC-27 Alone, 5 lbs. **15.**

NEW HY-GAIN VP-I. Extended 1/2-wave omnidirectional vertical. Voltage-fed, 10 db circuit gain. 16' long. 6 lbs.

23 SU 217-2D. VP-I Plus Bonus Offer. **19.**

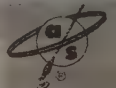
90 SX 397-D. VP-I Alone, 10 lbs. **19.**

NEW! From
44-gain



SGP-II

VP-II



M-36

NEW HY-GAIN SGP-II. Omnidirectional 1/4-wave ground-plane antenna has unity gain. Matches 52-ohm coax lines, 9' radiator of radials constructed of heavy-wall, 5/8" and 7/16" O.D. aluminum tubing. For all masts up to 1 3/4", 5 lbs.

86 SX 399-D. **12.**

NEW HY-GAIN VP-II. Omnidirectional ground-plane antenna provides effective 6 db gain. Matches 50-ohm coax lines. Has telescopic heavy-walled aluminum 16' radiator and 54" aluminum radials masts to 1 3/4" diameter. 10 lbs.

86 SX 400-D. \$5 Monthly. **24.**

ANTENNA SPECIALISTS M-36. Omnidirectional vertical 1/2-wave coaxial antenna. Matches 52-ohm coax inputs. 9' aluminum radials to 9' long, 2" dia. 1/4-wave aluminum skirt. Overall height, 34". 7 lbs. Shipped express.

89 CZ 819. **19.**

Mobile Station Antennas for Citizens Band

Sale!

NEW!

Mark HW-11-6 6-Ft.
Heavy-Duty Heliwhip

Static Arrester
B&K Mark Ant.
for 1¢ More.

11 "HELIWHIPS." Loaded whips for
perfect installations, except *heavy duty.
Std. or HWM mounts, below, 1 lb.

FL.	Alone		With Bonus	
	Stock No.	EA.	Stock No.	EA.
1	89 SX 799	9.95	23 SU 218-2D	9.96
2	86 SX 401	10.95	23 SU 219-2D	10.96
3	90 SX 132	7.20	23 SU 220-2D	7.21
4	90 SX 133	7.20	23 SU 221-2D	7.21
5	90 SX 134	7.20	23 SU 222-2D	7.21

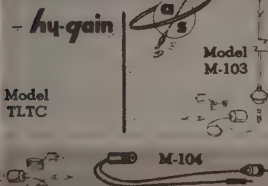
B&K/MARK ANTENNA MOUNTS



4-1 (fig. A) heavy-duty flat-surface
at. HWM-3 (fig. B) light-duty mount with
a mtg. swivel. SA-1 (fig. C) 90° swivel
der. 1 lb.

FL. No.	Type	Use With	EACH
614	HWM-1	All HW-11 whips	7.50
135	HWM-3	All HW-11S whips	4.25
122	SA-1	HWM mount	3.00

NEW COMBINATION MOBILE WHIPS FOR CB AND BROADCAST BANDS



HY-GAIN TLTC. Top-loaded whip an-
tenna works on both CB and AM bands.
Telescoping coupler permits dual-band use
without switching. Chrome-plated telescop-
ic whip has single-hole chrome body mount.
Includes cables, plugs. 2 lbs.

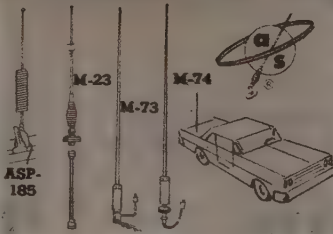
409-D. 14.65

7 ANTENNA SPECIALISTS M-103. Elimin-
ates need for two antennas. Center-loaded
works on both CB and AM broadcast
bands without switching. Chromed telescop-
ic whip has single-hole body mount.
Includes cables and plugs for your AM
radio and CB unit. 4 lbs.

459-D. 14.64

W ANTENNA SPECIALISTS M-104. Ad-
apts. harness and cable. Adapts most
rounded CB whips for dual band use.
Shpg. wt., 2 lbs.

410-D. 6.45



ANTENNA SPECIALISTS KITS

ASP-185. Clamp-on, base-loaded 40' whip
with 12' RG-58/U, PL-259. Clamps to gut-
ter. Wt., 2 lbs.

89 SX 792. 12.23

M-23. 102" stainless whip, coax body
mount, spring, 20' RG-58/U, 2—PL-259s,
hdwe, 6 lbs. Express.

89 CZ 793. 17.46

M-73. 44" base-loaded stainless whip with
trunk-groove mount, 12' RG-58/U, PL-259
Plug, 12 lbs.

89 SX 796. 16.72

89 SX 797. M-74. Above, cow! mt. 18.94

POPULAR hy-gain ANTENNAS



"TOPPERS"

NEW!

1¢ Sale!

on Hy-Gain BPRW Mobile
CB Antenna Package

Get the Hy-Gain
Static Arrester
for 1¢ More.

Save
\$1.64

Top-loaded stainless steel whip antennas.
Reduced size permits higher mounting for
better radiation efficiency. Match 52 ohms.
Encapsulated coils permanently fused to
same-diameter whips.

D TLW-M. 50" whip with chrome-plated
single-hole body mount. 1 lb.

90 SX 127. 8.95

E TLW-TM. Telescoping 50" whip, chromed
body mount, 28" closed. 1 lb.

90 SX 129. 8.95

F TLWR. 29" whip with trunk/roof mount
and spring. 1 lb.

86 SX 411-D. 11.97

G TLMA. For marine use. 6' whip has
heavy-duty mount, quick-disconnect fit-
ting. Shpg. wt., 3 lbs.

86 SX 418-D. \$5 Monthly. 19.95

TLW WHIP. Std. stud. 1 lb.

90 SX 128. 6.96

BPRW WHIP/MOUNT. 102" stainless steel
whip antenna has cadmium-plated steel
bumper mount with stainless steel strap.
3 lbs. Shipped express.

23 SU 225-2D. BPRW Plus Bonus. 10.33

86 CZ 419-D. BPRW Alone. 10.32

DCGK STATIC ARRESTER. Drains off static,
reduces lightning hazard. 3 oz.

86 S 407-D. 1.65

hy-gain MOBILE MOUNTS



86 S 420-D. IM "Jiffy" Mount. Attaches
under edge of trunk. Needs two 1/16" holes.
Accepts standard 3/8"-24 studs. Cadmium-
plated steel. 1/2 lb. 3.15

86 S 280-D. BDY Deluxe Body Mount.
Heavy-chromed split ball on cyclocal base.
For standard 3/8"-24 studs. 1 lb. 4.77

89 S 823. BPR Deluxe Bumper Mount. Stain-
less steel mount and strap. Fully adjustable.
Wt., 1 lb. 6.57

STAINLESS STEEL WHIPS. Shpg. wt., 2 lbs.
Shipped express.

90 CZ 141. W-102. 102" 4.35

86 CZ 294-D. W-108. 108" 4.50

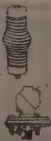
WARD MOBILE CB ANTENNA PACKAGES

LOW-COST ANTENNA PACKAGE. Includes a 102"
stainless steel mobile whip antenna, standard
chrome-plated double-taper spring, chrome-plated
wall-type body mount. 6 lbs. Express.

89 CZ 812. 6.95

89 CZ 814. Deluxe Antenna Package. As above, but
with chrome-plated heavy-duty spring and ball
mount. Shpg. wt., 7 lbs. Express. 10.95

As
Low As
\$6.95



"in Stock No. Indicates Item Shipped by Express

ALLIED 87

Citizens Band Walkie-Talkies—Priced for Value



11-TRANSISTOR CB UNIT WITH AM RADIO

Each
\$37⁹⁵
\$5 monthly

SAVE!
2 or More
\$35⁹⁵
each

- No License Required!
- Up to 1-Mile Range
- Built-In Standard AM Radio
- Crystal-Controlled CB Section
- Uses 11 Transistors, 1 Diode and 1 Thermistor
- Works on 8 Penlight Batteries
- Earphone, Carrying Case, and Batteries Included

Truly an electronic marvel—at a price within every budget! Transistorized walkie-talkie/AM portable features high-efficiency amplitude modulation for clearer, more powerful transmissions. Provides 2-way communications at distances up to a mile, under ideal conditions. And, you don't ever need a license to operate this unit—meets FCC requirements for unlicensed Citizens Band units.

The quality built-in AM radio keeps you posted on news, sports, and the weather. Tunes 540 to 1600 kc; has Automatic Volume Control to prevent blasting; high-gain ferrite bar antenna.

Push-pull audio output. 2½" speaker. Chrome-plated telescoping 4½' whip antenna. 100-mw transmitter input. 11 transistors, 1 diode, 1 thermistor, transmit/receive crystals for channel 15. Uses 8 penlight batteries (supplied). With earphone and leather case. 7¾x3¼x1½". From Japan. Shpg. wt., 2½ lbs.

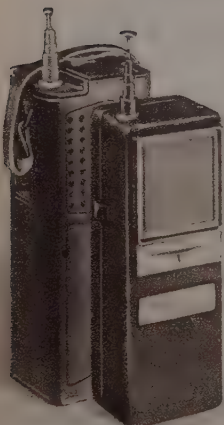
24 SC 180D. \$5 Monthly..... EACH 37.95
Save \$2.00 Per Unit..... 2 or More, EACH 35.95
39 A 677. Extra Batteries. Uses 8. Wt. 4 cz..... PKG. OF 2 FOR 17¢

9-TRANSISTOR WALKIE-TALKIE

SAVE!
Each
\$32⁵⁰
2 or More
\$29⁹⁵
each

Unusually fine performance from this moderately priced, compact unit. Buy two or more for outstanding savings. Provides communication at distances of a mile or more. No license required! Sensitive, crystal-controlled receiver section. Convenient press-to-talk button; 100% modulation; 2" speaker/microphone. 57" telescoping whip antenna; gray metal case. With earphone; carrying case and strap; crystals for channel 7. Less batteries, below (uses 7). 6½x2½x1½". From Japan. 1½ lbs.

24 SC 193D. \$5 Monthly..... **32.50**
Save \$2.55 Per Unit. 2 or More, EA. 29.95
39 A 677. Batteries. Each uses 7. Shpg. wt., per package, 4 oz. PKG. OF 2 FOR 17¢



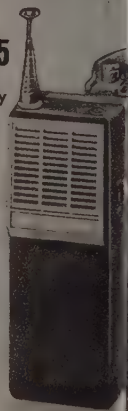
10-TRANSISTOR WALKIE-TALKIE

• Superhet Receiver Section with ANL
• With Case, Earphone

\$33⁹⁵
\$5 monthly

Provides communications at distances over a mile, under average conditions. Uses 10 transistors, 1 varistor and 1 thermistor in a fully crystal-controlled circuit. No license required! Meets FCC 100 mw regulation. Superhet receiver offers automatic noise limiter, volume control, earphone for private listening. 2¼" speaker/mike; push-to-talk switch. Telescoping 49" antenna; rugged metal case. With leather carrying case, earphone, shoulder strap, crystals for channel 7. Less batteries, below. 7½x2½x2½". From Japan. 1½ lbs.

24 SC 175D. \$5 Monthly..... **33.95**
39 A 677. Batteries. Each uses 8. Shpg. wt., per package, 4 oz. PKG. OF 2 FOR 17¢



\$1 Bonus

Rechargeable Battery Pack worth \$19.95—for just \$1.00 more!

Both for	Less Pack
\$130⁹⁵	\$129⁹⁵

JOHNSON 1½-WATT WALKIE-TALKIE SPECIAL—SAVE \$18.95

One of the finest CB units you can buy. Professional quality. Get 10 times the power, and twice the range of most walkie-talkies—and save \$18.95 on a rechargeable nickel-cadmium battery pack. 1½-watt unit has 11 transistors and 4 diodes. Transmitter and receiver are crystal controlled. Superheterodyne receiver has RF amplifier for extra sensitivity. Push-pull output stage offers superb voice reproduction. Moistureproof speaker/mike; press-to-talk button; squelch control; ear jack, 35" telescoping antenna. 12x4¾x2¾". With crystal and FCC license-application form. Uses battery pack (included) or 8 penlight batteries. Battery pack recharges from 110V AC outlet. 2½ lbs. Specify channel—1-22.

BOTH FOR 130.95
24 SC 196D. Walkie-Talkie Alone. 2 lbs. spec. chan... 130.95
24 SC 185D. Battery Pack Alone. Wt., 4 cz..... 130.95
24 SC 198D. Leather Case. For Walkie-Talkie. 8 cz..... 130.95
39 A 677. Batteries. Uses 8. Wt., 4 cz.... PKG. OF 2 FOR 17¢

Tape Recording Heads and Accessories

Northronics



2-TRACK AND 4-TRACK STEREOPHONIC AND MONOPHONIC MAGNETIC TAPE HEADS

ORD AND RECORD/PLAYBACK HEADS. Laminated-core heads professional use and optimum performance requirements. (Series and 3100 solid-core types.) Response: 30-15,000 cps at 7½ Crosstalk rejection on stereo heads: 50 db. Av. wt., 6 oz.

NO-MOUNT HEADS. *For circuits with tubes, transistors, both.

Stock No.	Mfr's Type	Description	1-ke Ind. MHY	Gap Mil.	60-ke Imp. Ohms	EACH
RC 854	1000	4-tr. stereo, R/P high-Z*	750	0.10	.....	21.00
RC 856	1002	4-tr. stereo, R/P low-Z†	100	0.10	.....	21.00
RC 857	1003	4-tr. stereo, record only†	60	0.50	.....	21.00
RC 858	1800	2-tr. stereo, R/P high-Z*	700	0.16	.....	23.30
RC 860	1802	2-tr. stereo, R/P low-Z†	100	0.16	.....	23.30
RC 861	1803	2-tr. stereo, record only†	60	0.50	.....	23.30
RC 862	2600	2-tr. mono, R/P high-Z*	700	0.16	.....	15.90
RC 864	2602	2-tr. mono, R/P low-Z†	100	0.16	.....	15.90
RC 865	2603	2-tr. mono, record only†	60	0.50	.....	15.90
RC 829	3000	2-tr. mono, R/P high-Z*	1000	0.16	.....	8.40
RC 830	3001	2-tr. mono, R/P med.-Z*	400	0.16	.....	8.40
RC 831	3100	Like 3000, w/center track*	1000	0.16	.....	8.40
RC 832	3101	Like 3001, w/center track*	400	0.16	.....	8.40
RC 866	1400	4-tr. stereo erase, high-Z†	80	30K	12.00	.....
RC 867	1401	4-tr. stereo erase, med.-Z†	10	2800	12.00	.....
RC 868	2200	2-tr. stereo erase, high-Z†	80	25K	12.00	.....
RC 869	2201	2-tr. stereo erase, med.-Z†	8	2000	12.00	.....
RC 870	3600	2-tr. mono erase, high-Z†	80	25K	8.00	.....
RC 871	3601	2-tr. mono erase, med.-Z†	8	2000	8.00	.....

NO-MOUNT KIT HARDWARE. For adapting No-Mount heads (above and below) to Side or Base-Mount styles. Av. shpg. wt., 4 oz.

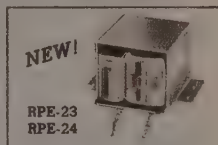
DE MOUNT		BASE MOUNT		For Head Types
Stock No.	QK No.	Stock No.	QK No.	
RC 850	38	RC 852	66	All R/P except 3000, 3100
RC 898	20	RC 897	21	3000, 3100 R/P
RC 851	18	RC 853	19	All Erase Heads
RC 838	103			R/P Head Hardware for RCA, Bell Cartridge Machines

H.....1.00

ERASE HEADS. Efficient double-gap heads with full metal face and all metal case. 60-ke operating voltage; high-impedance types require 100-150 volts; medium-impedance types, 30-50 volts. For frequencies up to 100 kc. Av. shpg. wt., 6 oz.

NORTRONICS REPLACEMENTS FOR M/M AND SHURE HEADS

Premium-quality heads for direct replacement of Michigan/Magnetic and Shure heads used in many home-type recorders. QK number indicates required mounting hardware to be ordered from listing at left.

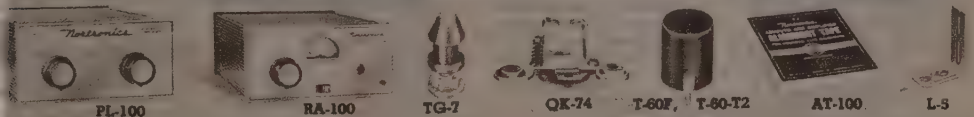


Stock No.	Mfr's Type	QK No.	Replaces All These Tape Heads	EACH
M/M Type:				
80 RC 836	1851	.....	3F20-101	24.80
80 RC 837	1801	66	3F20-105	23.30
80 RC 936	2651	.....	3FM20-104, 3FM20-108	18.90
80 RC 830	3001	20	31.20	8.40
80 RC 858	1800	38	5B20LS, 7B17, 10B20LS	23.30
80 RC 854	1000	38	5Q17, 5Q17-105	21.00
80 RC 854	1000	103	5Q1717, 5Q1717-105	21.00
80 RC 829	3000	20	7L17, 7L17-108, 10L17-104	8.40
80 RC 871	3601	18	5S1, 5S1-103, 7EM12A	8.00
80 RC 835	2201	18	5S51	12.00
80 RC 867	1401	18	9QE3	12.00
80 RC 870	3600	18	40EM12	8.00

Shure Bros. Type:				
80 RC 833	RPE-23	.....	815, TR5, TR5B, TR5B-J, TR5D, TR5H, STRB	15.60
80 RC 834	RPE-24	.....	815H, TR5C, TR5K, TR5L, TR5Z-1, TR5Z-2J	15.60
80 RC 832	3101	20	817, TR16A, TR16-J, TR21C-J	8.40

FREE NORTRONICS TAPE HEAD REPLACEMENT GUIDE. Lists over 440 recorders. Most complete reference of specific replacement heads.

80 R 839. New Edition..... **FREE**



SELECTED HIGHEST-QUALITY TAPE RECORDING ACCESSORIES

PL-100 PLAYBACK AMPLIFIER. Delivers 3 watts to 4, 8, or 16-ohm speaker. Inputs: 1-imp. tape head, mag., or ceramic phono recorder, tuner. Equalization: variable, NAB/RIA. 30-15,000 cps, ± 2 db. Output: triode, l.v. cathode follower. $2\frac{1}{2} \times 5 \times 5\frac{1}{2}$ in. For 115 v., 60 cycle AC. 6 lbs.
793. \$5 Monthly.....46.50

T-60F BIAS OSCILLATOR COIL. For 7U7A circuits. Adjustable 70-100 kc, depending on impedance. For all heads, w. shpg. wt., 6 oz.
894.....4.50

TG-7 COIL. For single-ended or P-P transistor circuits. 30-80 v. at 60-100 kc to med. record, R/P, erase heads. 6 oz.
895.....4.50

RA-100 RECORDING AMPLIFIER. Use in pairs for recording stereo. Adjustable for use with most tape heads. Supplies audio and 65-ke bias to any record/play head listed above, plus 115 v. to high-impedance erase head. VU meter, monitor output. Inputs: mike, tape head, phono, tuner. Equalization: NAB/RIA. $2\frac{1}{2} \times 5 \times 8\frac{3}{8}$ in. For 115 v., 60 cycle AC. Shpg. wt., 6 lbs.
80 R 792. \$5 Monthly.....57.50

AT-100 ALIGNMENT TAPE. Full-track, $7\frac{1}{2}$ ips tape. For proper azimuth alignment, checking frequency response (NAB curve) on any recorder. Instructions recorded on tape. Wt., 8 oz.
80 R 111.....4.95

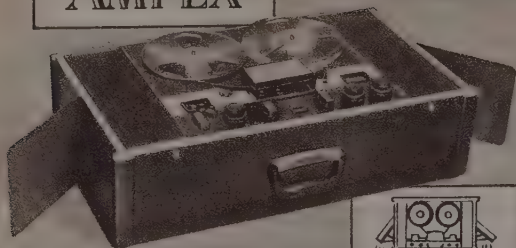
NEW! QK-74 MOUNTING ASSEMBLY. Complete with adjusting screws for azimuth, height, face alignment. Accepts TG-7 guide post (below) on each side of head. For all No-mount R/P heads listed above, except Series 3000 and 3100. Shpg. wt., 4 oz.
80 RC 849.....2.25

NEW! TG-7 ADJUSTABLE TAPE-GUIDE POST. Versatile, made to high-precision tolerances. Sapphire-hard coating for extra-long life. Wt., 3 oz.
80 R 795.....1.00

L-5 BRACKET. Universal type. For installing Side-mount style tape heads on any tape recorder. Shpg. wt., 3 oz.
80 R 796.....50¢

AMPEX

Professional Tape Recorders



MODEL F-4470 STEREO MONITOR RECORDER

\$695⁰⁰

- Built-In Amplifier and Speakers
- Records 4-Track Stereo and Mono
- Plays 4-Track Stereo and Mono

\$29 monthly

An extraordinary portable recorder that records and plays back 4-track stereo and monophonic tapes. Has built-in amplifier and two 7" elliptical speakers. Deflecting panels for effective channel separation. Also has: hysteresis-synchronous motor for 1% timing accuracy; two recording-level meters; output circuits and jacks for monitoring while recording, with use of optional stereo head-sets; two automatic shut-off positions; selective erase head for monophonic sound-on-sound; automatic tape take-up; master selector switch; built-in mixer; record indicator lights for each channel. Controls are color-coded to distinguish channels.

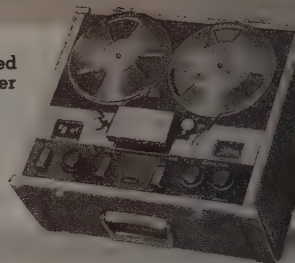
Speeds: 7½ and 3¾ ips. **Reel Size:** 7" maximum. **Frequency Response:** 50 to 15,000 cps at 7½ ips; 50 to 10,000 cps at 3¾ ips. **Flutter and Wow:** less than 0.15% rms at 7½ ips. **Recording Inputs:** Radio/TV/Phone/Auxiliary; high-impedance mike inputs. **Playback Outputs:** cathode follower. **Monitor Amplifier/Speakers:** output, 10 watts nominal, undistorted. **Size,** 9x15x25½". **Less microphones.** For 110-120 volts, 60 cycle AC. Shpg. wt., 49 lbs.

79 RU 980-D. \$29 Monthly..... 695.00

4-Track, 2-Speed
Recorder/Player

\$595⁰⁰

\$25 monthly



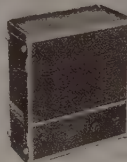
MODEL F-4460 PORTABLE STEREO RECORDER

Records and plays 4-track stereo and mono. Has 3 precision hysteresis-synchronous motor for narrow track recording; hysteresis-synchronous motor for timing accuracy; two record-level meters; two record indicator lights; improved tape guidance system; two automatic shut-off positions; selective erase head for sound on sound; automatic take-up; master selector switch; built-in mixer. **Speeds:** 7½ and 3¾ ips. **Response:** 50 to 15,000 cps at 7½ ips; 50 to 10,000 cps at 3¾ ips. 9x15x15". With charcoal gray portable case. Less power amplifier and speakers. For 115 VAC. 41 lbs.

79 RU 979-D. \$25 Monthly..... 595.00

79 RU 978-D. F-4450. As above; less portable case..... 595.00

MODEL 2044 AMPLIFIER-SPEAKER



Designed specifically for use with Ampeg Series recorders, but can be used with any recorder. Includes separate tweeter and 8" woofer with crossover network. Power output, 10 (20-watt peak) flat, ±0.1 db. Frequency response, 70-13,000 cps. Portable brown case 17½x15". For operation from 110-120 volt cycle AC. Shpg. wt., 37 lbs.

79 RU 981-D. \$9 Monthly..... 179.00

EICO

Deluxe 4-Track, 2-Speed Stereo Tape Decks



Semi-Kit

\$299⁹⁵

\$15 monthly

- 3 Specially Designed Motors
- 14-Transistor Stereo Preamp
- DC Electrodynamic Braking
- Electric Pushbutton Control

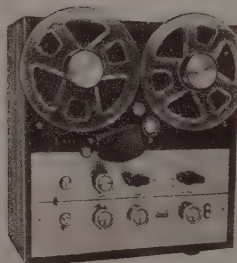
MODEL RP-100K 2-SPEED TRANSISTORIZED
STEREO TAPE DECK KIT

Professional-quality 2-speed stereo tape deck with easy-to-assemble transistorized record/play preamp. Incorporates an 8-transistor stereo record preamp and a 6-transistor stereo playback preamp on two, separate, enclosed chassis at front. Provide outstanding 55 db signal-to-noise ratio. 3-head design permits 4-track stereo and monophonic record/play, 2-track stereo and monophonic playback, plus direct monitoring, and sound-on-sound recording. Hysteresis-synchronous capstan-motor, 2 four-pole reel-motors, DC electrodynamic braking automatic, solenoid-operated tape lifters, two recording level meters, separate mixing-tape mike and high-level inputs. **Response** (±2 db): 30-17,000 cps at 7½ ips, 30-10,000 cps at 3¾ ips. **Wow and Flutter:** 0.15% at 7½ ips; 0.2% at 3¾ ips. All-electric pushbutton control for uniform, positive actuation of any operating mode. Takes 7" reels. 13½x15½x7¼". For 110-120 v., 60-cycle AC. Shpg. wt. 51 lbs.

79 RZ 480-D. \$15 Monthly..... 299.95

79 RZ 479-D. Model RP100W. As above, but factory-wired..... 450.00

79 RX 916. CC-2 Case for Deck. Charcoal. 13 lbs..... 29.95



Semi-Kit

\$199⁹⁵

\$10 monthly

- 3-Motor Tape Transport
- Electrodynamic Braking
- Precision Tape Guidance
- Easy-To-Assemble

MODEL 2400K 2-SPEED STEREO TAPE DECK

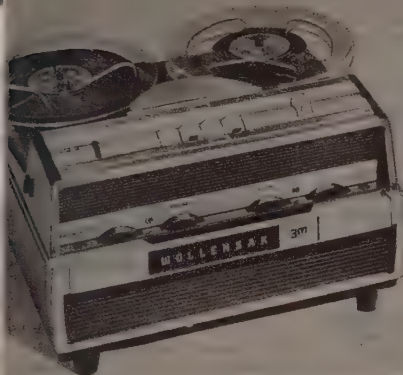
A compact, easily assembled 4-track stereo and mono recorder incorporating a 3-motor tape transport with DC electrodynamic braking. Combination head design provides 4-track stereo and mono record; 4-track stereo, 2 and 4-track mono playback; 4-track erase. Features Transport Mode Selector (Standby, Wind for forward and rewind, Play, Record); 2 electron ray level indicators; 2 line-level controls; top-of-deck, jam-proof shift; full record/playback equalization on both speeds; mixing automatic end-of-tape stop switch and digital counter. **Response** (±3 db): 30-17,000 cps at 7½ ips; 30-12,000 cps at 3¾ ips. **Wow and Flutter:** 0.2% at 7½ ips; 0.3% at 3¾ ips. Takes 7" reels. Case, finished in oiled walnut. Size, 12¾x12x6½". For 110-120 cycle AC. 40 lbs.

79 RU 964-D. \$10 Monthly..... 199.95

Model 2400W. Same as Model 2400K above, but factory wired

79 RU 965-D. \$14 Monthly..... 249.95

Stereo Tape Recorders by Wollensak



A
Model T-1580
\$319⁰⁰ \$16^v monthly



- Records and Plays 2 and 4-Track Stereo and Monophonic Tapes
- 2 Speeds—7½ and 3¾ ips
- 22-Watt Stereo Amplifier
- Automatic Head Demagnetizer
- Sound-with-Sound Recording



C
NEW
Model 1980
\$379⁰⁰ \$18 monthly

B
NEW
Model 1440
\$189⁰⁰ \$10 monthly

Records and Plays Back 2 and 4-Track Monophonic Tapes. Plays 2 and 4-Track Stereo through any External Speaker-Amplifier. Built-in 10-Watt Monophonic Hi-Fi Amplifier. 2 Speeds.

Wollensak's finest! Records and Plays Back 2 and 4-Track Stereo and Monophonic Tapes at 7½ and 3¾ ips. 22-Watt Stereo Amplifier. Provision for Sound-with-Sound Recording.

MODEL 1580 2-SPEED STEREO TAPE RECORDER

Extremely-priced portable delivers full-dimensional sound. Records and plays back and 4-track stereo and mono tapes at 7½ and 3¾-ips tape speeds. Also offers sound-with-sound recording. Has a powerful 22-watt stereo amplifier that provides outstanding audio, and two built-in, top-quality speakers. Four easy-to-use tape control all-around/playback functions. And you can the 1580 as a portable P.A. system. Has tuned tone and volume controls for each channel; precision index counter; automatic head demagnetizer; recording level indicator for each channel. Self-adjusting brakes are instant stop for precise cueing and ending. Also has automatic end-of-reel shut-off. Response: 40-18,000 cps at 7½ ips. Wow and Flutter: below 0.3% (both speeds). Signal-to-Noise Ratio: better than 48 db. Takes 7" reels. Size, 6½x10½x11¾". With two mikes. 1200-ft. reel of tape, 7" take-up reel, vinyl cover and storage pouch; patch cord, removable lid. For 110-120 v., 60 cycle AC. 40 lbs. RU 486-D. \$16 Monthly.....\$319.00

ACCESSORIES. For all models.
 RU 465-D. Foot Control. 2 lbs.....15.75
 RU 468-D. Earphone. 8 oz.....9.45

B NEW MODEL 1440 2-SPEED TAPE RECORDER

Quality recorder at an economy price. Records and plays 2 and 4-track monophonic tapes. Also plays 2 and 4-track pre-recorded stereo tapes—one channel through its own speaker, the other through your hi-fi system, phono, or TV. Track dialing for recording on 4 separate tracks—up to 8 hours on one reel. Has a powerful 10-watt amplifier. Automatic head demagnetizer. Keyboard controls are easy to operate—control play, record, and stop. Also has fast forward/rewind selector, pause control, normal-digital recording-level indicator, digital tape counter. Response: ±3 db, 40-13,000 cps at 7½ ips. Wow and Flutter: less than 0.35%. Signal-to-Noise Ratio: better than 48 db. With mike, 1200-ft. reel of tape, 7" take-up reel, removable lid. 6½x10½x11¾". For 110-120 v., 60 cycle AC. 38 lbs. RU 975-D. \$10 Monthly.....189.00

MODEL 1400. As above, but records and plays back 2-track monophonic tapes only. Wt., 30 lbs. Shipped express. RU 977-D. \$9 Monthly.....169.00

RU 471-D. Vinyl Slip-Over Cover and Storage Pouch. For Models 1440 and 1400. Shpg. wt., 2 lbs.....6.75

C MODEL 1980 PROFESSIONAL 2-SPEED STEREO RECORDER

Deluxe portable stereo recorder. Records and plays back 2 and 4-track stereo and monophonic tapes at 7½ and 3¾ ips tape speeds. Has provision for making sound-with-sound recordings. Can also be used as a Public Address system. A powerful 22-watt stereo amplifier provides outstanding sound through two built-in speakers; has tone and volume controls for each channel; inputs for high-level sources and mikes, outputs to stereo amplifier and 8-ohm extension speakers. Designed for either vertical or horizontal operation, has fool-proof reel locks, precision index counter, self-adjusting brakes for instant stops, automatic end-of-reel shutoff. Also has dual VU meters, automatic head demagnetizer. Simple controls for all record and playback functions. Frequency Response: ±3 db, 40-18,000 cps at 7½ ips. Wow and Flutter: below 0.3% (both speeds). Signal-to-Noise Ratio: better than 48 db. Takes 7" reels. 21½x12¾x9½". With two mikes, 1200-ft. reel of tape, 7" takeup reel, two patch cords, two audio cables with plugs. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 52 lbs. Shipped express. RU 976-D. \$18 Monthly.....\$379.00



FREE Tape-Editing Kit
When You Buy the Concord 550

CONCORD 550 STEREO RECORDER AND TAPE KIT

\$269⁹⁵

- Save \$18.95 on Tape-Editing Kit
- 3-Speed Operation: 7½, 3¾, 1½ ips
- 4-Track Stereo and Monophonic Taping

Enjoy Concord's new 3-speed stereo recorder, and save \$18.95 on a tape kit. The 550 records and plays 4-track stereo and monophonic tapes. Features transistorized preamps and a built-in 10-watt stereo amplifier. 6x4" speaker plus 6¼" speaker in detachable lid, ensure maximum channel separation. Also: pushbutton controls; digital footage counter; two level meters; idler disengagement; outputs for external amplifier and speaker; radio-TV-phono input; sound-on-sound and other effects. ±2 db, 40-16,000 cps at 7½ ips. 9½x13½x14". With two dynamic mikes, 4 patch cords. For 110-120 v., 60 cycle AC. From Japan. Tape kit includes: 5—7" reels of tape; 150' leader; splicer; 150' splicing tape; booklet; head cleaner; 30 labels; 12 clips; lubricant; cleaning cloth 48 lbs.

23 RU 154-3D. \$14 Monthly.....269.95

BELL T-347 STEREO TAPE DECK

Can be custom-
mounted. Runs
vertically or
horizontally.

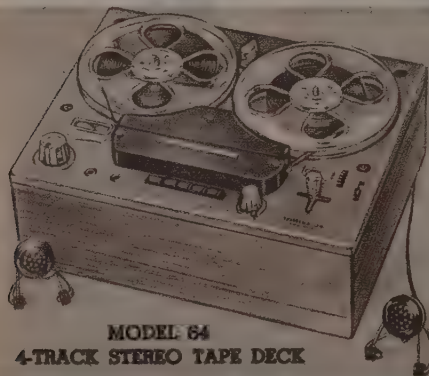
**4-TRACKS
2-SPEEDS**

\$299⁹⁵

- Record/Playback Preamplifier
- 3 Heavy-Duty 4-Pole Drive Motors
- 3 Separate Precision Tape Heads
- Automatic Shutoff • Tape Lifters

Bell's T-347 is a professional-quality tape deck engineered to record and play 4-track stereo or monophonic tape in brilliant high fidelity. Has three separate, precision 4-track heads (playback, record and erase) that permit off-the-tape monitoring, echo, sound-on-sound, and "DuoSound" (to add stereo effects to monophonic music sources). Also has three heavy-duty 4-pole motors: spooling motors and one capstan motor to control tape perfectly. Electro-dynamic braking stops tape without spillage, stretch breakage. Pushbutton controls select 3¾ or 7½-ips tape speed; off-run, rewind, fast-forward and standby. Also has automatic off; tape lifters; tape counter; stereo microphone and tuner input; amplifier output; headphone jacks; dual meters. Response: ±3 db, 18-16,500 cps at 7½ ips. Flutter and Wow: below 0.2% at 7½ Takes 7" reels. Wood-grained and chrome finish. 15¼x13¼x14". For 110-120 v., 60 cycle AC. Shpg. wt., 29 lbs.

79 RU 497D. \$16 Monthly.....299.95



MODEL 64

4-TRACK STEREO TAPE DECK

\$498⁰⁰

- Records/Plays 4-Track Stereo and Mono
- Hysteresis-Synchronous Drive Motor
- Three Speeds: 7½, 3¾, and 1½ ips
- Three Separate 4-Track Stereo Heads

Tandberg's Model 64, a product of outstanding craftsmanship, delivering extraordinary high-fidelity performance. Has three 4-track heads, including ferrite-core erase head, plus 2 record and 2 playback preamps for stereo and mono recording, sound-on-sound, echo, etc. Multiplex filter. Response: ±2 db, 30-16,000 cps at 7½ ips; 40-11,000 cps at 3¾ ips; 50-5500 cps at 1½ ips. Flutter and Wow: under 0.1% at 7½ ips. Cathode-follower outputs. 6x16x12". Wood base. Less microphones. For 110-120 volts, 60 cycle AC. Shpg. wt., 30 lbs.

79 RU 488D. \$21 Monthly.....498.00

79 RU 489-2D. 64-1. Above, with carrying case. 30 lbs.....519.00

79 R 446D. 22-FP Foot Pedal. For remote operation. Controls start-stop. Shpg. wt., 3 lbs.....18.00

79 R 439D. CM-6 Mike. 30-12,000 cps. 12' cable. 4 oz.....15.00

Tandberg

Recorders
of Great
Distinction
... from Norway



MODEL 841F

4-TRACK MONOPHONIC RECORDER

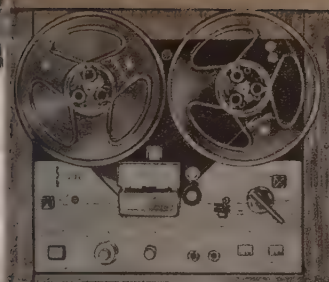
\$287⁵⁰

- Records/Plays 4-Track Monophonic Tapes
- Up to 18½ Hours Recording Time on 7"
- Recording Level Indicator • 7x4" Speaker
- Remote-Control Foot Pedal • Two Speeds

Offers up to 18½ hours of recording time for longer musical dramatic works, meetings, classes, etc. Has laminated record/playback ¼-track head and ferrite-core erase head. Features: pushbutton control of instant stop, start, or pause while operating; vision for P.A. use; input for mike, radio or phono; eye-type recording level indicator; digital counter; bass boost for playback; remote control operation; 7x4" hi-fi speaker. Speeds: 3¾ and 1½ ips. Response: 20-13,000 cps at 3¾ ips; 20-8000 cps at 1½ ips. Flutter and Wow: less than 0.2% at 3¾ ips. Teakwood cabinet; gray d. 63x11½x15". With remote-control foot pedal, patchcords, 7" take reel. Less crystal mike, left. Less case, below. For 110-120 volts, 60 cycle AC. Shpg. wt., 21 lbs.

79 RU 972D. \$15 Monthly.....287.50

79 RU 973D. TC-S8 Luggage-Type Case. Wt., 6 lbs.....28.00



4-TRACK STEREO CONSOLE

In Beautiful
Prestige Cabinet
for Any Decor



- Records and Plays 4-Track Stereo and Monophonic Tapes
- 4 Speakers • 2 Level Indicators
- Digital Counter • Tone Control

With Two
Mikes

Tape Console

\$199⁹⁵

Deck Alone

\$134⁹⁵

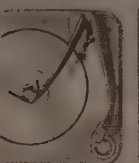
ed brings you a new concept in high-fidelity tape-recording enjoyment—complete 4-track, 2-speed stereo tape recorder console, offering magnificent sound and a beautiful decorative cabinet to enhance the decor of your living room or den. Records and plays 4-track stereo and monophonic tapes. Your music is delivered through four (2—6x4" oval and 2—4" round) speakers sparkling stereo, deflected by sound panels for best channel separation. Console records from microphone, radio, TV or phono. Has a digital footage meter and two recording level indicators. Also has tone control for bass and treble adjustment. 7 tubes and rectifier. **Speeds:** 7½ and 3¾ ips. **Frequency response:** 60-12,000 cps at 7½ ips. Supplied complete with 2 microphones with 7" reel of tape, and a take-up reel. 28x23x14". Expertly finished in mahogany or walnut—specify. For 110-120 volts, 60 cycle AC. From Japan. Shpg. wt., 56 lbs. Shipped Express from New York City.

RZ 974D, Tape Deck Only. Same tape deck as used in tape console described above; with preamps only. Shpg. wt., 24 lbs. \$7 Monthly..... **199.95**
..... **134.95**



COMPLETE STEREO MUSIC CONSOLE

*Complete...Thrill to
Hi-Fi Stereo from
Every Music Source!*



4-Track Stereo Tape Recorder and Two Mikes
4-Speed Automatic Stereo Record Changer
Stereo Multiplex FM/FM-AM Radio
6 Speakers • Luxurious Wood Cabinet



\$299⁹⁵ \$15
monthly

...citing, complete stereo audio center offers a world of musical pleasure, and delightful contemporary styling. Hard to believe, but true—in one curious cabinet you get a deluxe recorder that records and plays 4-track stereo and monophonic tapes at 3¾ and 7½ ips; a stereo phonograph that plays records at all four speeds; and a thrilling stereo multiplex FM/AM radio. All at a budgeting price. Tapes can be recorded from mikes, phono or radio—even records FM stereocasts! Has tape controls, two level-meters and a digital tape meter. Also includes a pair of wide-range micro-

phones, 7" reel of tape, and take-up reel. Automatic 4-speed changer intermixes records of same speed and shuts off automatically after last record; has turnover stereo cartridge with two sapphire needles. Radio boasts 5 controls. 6 speakers (3 per channel) deliver spectacular stereo sound. Includes outputs for stereo extension speakers. 19-tube circuit. 30½x40½x15" deep. Finished in mahogany or walnut—specify. Brass-tipped legs. For 110-125 volts, 60 cycle AC. From Japan. Shpg. wt., 110 lbs. Shipped Express from New York City.
D24 RZ 594CD. No C.O.D. Orders..... 299.95

Allied Always Guarantees Your Satisfaction

ALLIED 93

ROBINS

SK17

ROBINS-M/M TAPE HEADS

- For Replacement or Stereo Conversion

Heads with L, B and Q in Type No. are completely interchangeable for conversion. See 17-H book (following page) for replacement data. 9QE3 erase head is 4-track replacement for 5S1 and 5SS1. *Digit is number of tracks; S for stereo; M for monophonic; RP for record/play; E for erase. Wt., 6 oz.

Stock No.	Type	*Use	EACH
80 RC 261	3L20-101	2MRP	6.00
80 RC 226	5AV17	4SRPE	19.20
80 RC 230	5QT17	4SRP	9.60
80 RC 231	5QT17-105	4SRP	9.60
80 RC 232	5S1	2ME	4.20
80 RC 233	5S1-103	2ME	4.20
80 RC 239	5SS1	2SE	7.80
80 RC 258	5TRB	2MRPE	10.20
80 RC 250	7B17	2SRP	9.00
80 RC 265	7L17	2MRP	6.00
80 RC 252	7L17-108	2MRP	6.00
80 RC 253	7EM12A	2ME	4.80
80 RC 254	9QE3	4SE	4.00
80 RC 256	10L17-104	2MRP	6.00
80 RC 257	40EM-12A	2ME	4.80

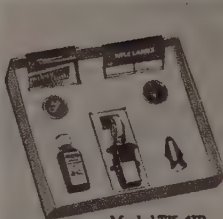
4-TRACK CONVERSION KIT

TYPE SK17. Converts 90% of U.S.-made 2-track stereo recorders to 4-track. Contains 5Q17 4-track record/play head, head alignment tape, hardware, instructions. Additional amplifier required for use with monophonic recorders. Wt., 8 oz. **10.80**

80 RC 259..... **10.80**

80 RC 260, SK17U. As above, except 4-track head (5Q17-105) mounts on opposite side. **10.80**

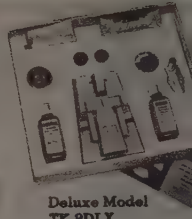
Replacement Tape Heads and



Model TK-4JR



Model TK-2



Deluxe Model TK-8DLX

DELUXE ACCESSORY KITS FOR ALL TAPE RECORDERS

- Kits for Home and Professional Use
- Provide Best Head and Tape Care for Longer and Better Service
- Permit Easier, Faster and Improved Taping
- A "Must" for Serious Tape Recordists

Stock No.	Type	Description	Wt.	EACH
80 R 121	TK-2	HC-2 head cleaner and JCT-2 cloth.	4 oz.	1.20
80 R 120	TK-4H	H-4 splicer, ST-500 spl. tape, TC-12 tape clips, JCT-2 jockey cloth, TE-24 book.	1 lb.	2.20
80 R 115	TK-4JR	TS-4J splicer, HC-2 head cleaner, ST-375 splicing tape, TT-1 tape threader, JCT-2 cloth, TC-12 tape clips, SL-30S labels, TE-24 book.	1 1/2 lb.	6.70
80 R 168	TK-4STD	TS-4S splicer, ST-375 splicing tape, TT-1 tape threader, TC-12 tape clips, HC-2 head cleaner, JCT-2 tape cleaning cloth, SL-30 labels, TE-24 guide book.	1 1/2 lbs.	8.10
80 R 169	TK-8DLX	Deluxe kit—TS-8D splicer, ST-500 splicing tape, TT-1 tape threader, TC-12 tape clips, HC-2 head cleaner, RC-2-22 head and guide lubricant, JCT-2 tape cleaning cloth, RH-2 reel holders, SL-30 labels, TE-24 book.	1 1/2 lbs.	10.00
80 R 213	AVK-1	Complete kit—every accessory for the language lab, recording studio, audio-visual dept., professional recordist, ME-99 eraser, HD-6 demagnetizer, TS-8D splicer, 6 rolls of ST-500 spl. tape, TK-5 strobe, TK-6 cleaner and lubricant, TT-1 tape threader, JCT-2 jockey cloth, 12—SL-30S labels, 2—TC-12 tape clips.	14 lbs.	46.80

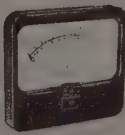
Tape Storage Cans



Pressure Pads



Head Cleaner and Lube Kit



4 1/2 VU Meter



Tape Strobe Kit



Head Cleaner



TRB-3 Tele-Tape Beeper-Inductor

TAPE HEAD CLEANERS, LUBRICANTS AND ACCESSORIES

TC-7 TAPE STORAGE CANS. Steel can for safe storage of tapes to 7" diameter. Shpg. wt., 8 oz. **51¢**

80 R 207..... **51¢**

80 R 208, TC-5. 5" dia. 6 oz. **36¢**

PP-1 REPLACEMENT PRESSURE PADS. Assortment of pre-cut felt pressure pads fits almost all recorders. 2 oz. **60¢**

80 R 209..... **60¢**

TK-6 TAPE HEAD CLEANER AND LUBE KIT. Includes 2-oz. bottle of head cleaner and 2 oz. bottle of head and guide lubricant. Shpg. wt., 6 oz. **1.20**

80 R 181..... **1.20**

RC-2-22 TAPE HEAD LUBRICANT. 2-oz. bottle. Shpg. wt., 4 oz. **60¢**

80 R 206..... **60¢**

RC-2-33 TAPE AND PHONO-DRIVE OIL. 2-oz. bottle. Wt., 4 oz. **45¢**

80 R 182..... **45¢**

VU-100 4 1/2" VU METER. 0-100% mod.; -20 to +3 db. Dual-impedance input. Sensitivity, 200 μ ; shunts for 1.2 or 12 v. "zero" VU. Mounts in 2 3/4" dia. hole; 1 1/2" deep. 1 lb. **18.00**

80 R 125..... **18.00**

TK-5 TAPE STROBE KIT. Lets you check speed, flutter and wow of 15, 7 1/2 and 3 3/4-ips recorders. Instructions. For 110 v., 60-cycle AC. Wt., 1/2 lb. **1.20**

80 R 128..... **1.20**

HC-2 TAPE HEAD CLEANER. Removes distortion-producing dirt, grime and oxides from heads. 2-oz. bottle with applicator. Shpg. wt., 4 oz. **60¢**

80 R 113..... **60¢**

HC-5 "TAPE CLEAN". 5" reel of chemically treated cloth tape. Cleans and lubes. Shpg. wt., 6 oz. **1.65**

80 R 205..... **1.65**

TELEPHONE TAPE ACCESSORIES

TRB-3 TELE-TAPE BEEPER-INDUCTOR. Makes it easy to comply with FCC regulations. Transistorized signal generator-tuning with attached ferrite-core induction coil automatically injects 1-kc "beep" into phone lines and recorder at 15-sec. intervals. Battery lasts for about 3000 average phone calls. "Easy-on" spring fastening to phone. Has 6-ft. cable to phone and to recorder. With on-off switch. Less battery, belted 5x2x1 1/2". Shpg. wt., 1 lb. **16.80**

80 R 210..... **16.80**

SS J 061. Battery for Above..... **1.00**

TRP-1 TELE-TAPE INDUCTOR. Similar above, but without "beeper". Pickup coil has high-efficiency ferrite core. "Easy-on" mechanical spring fastening. Has high gain and high signal-to-noise ratio. 6-ft. shielded cable from telephone ear piece to recorder. Shpg. wt., 6 oz. **3.60**

80 R 211..... **3.60**

ape Recording Accessories

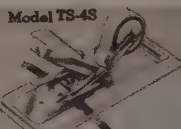
ROBINS



Model TS-8D



Model SP-4



Model TS-4S

Model TS-4J

EASY-TO-USE TAPE SPLICERS

8D "STEREO 4" DELUXE SPLICER. Developed to meet the special requirements of splicing 4-track tapes without affecting program material on the outside tracks. Works equally well for single-track and stereo tapes. Cuts tape diagonally, trims frayed ends on sides of tape to prevent electrical contact with recorder parts. Reusable cutter cartridge. Blade-centering adjustment. "See-thru" windows show operating positions. Made of super-strong Plexiglas. Has integral tape-dispenser. Includes 100' roll of 1/2" splicing tape, instructions. Wt., 1 lb.

8D R 142.....**7.65**

R 190. RK-8. Replacement cutter cartridge and 2 cutting pads for TS-8D, above. 3 oz.....**.84¢**

4J "SEMI-PRO" SPLICER. Small, efficient, non-stereo tape splicer. Tape alignment guide with adhesive back; hand-held timing unit. Blade cover protects blades. Makes diagonal cuts and "Gibson Girl" notches. Wt., 3 oz.

4J R 150.....**1.50**

TS-4S "STEREO 4" STANDARD SPLICER. Utility version of the TS-8D, at left. Has same features except "See-thru" windows. Made of metal and plastic. Replaceable cutter cartridge; blade-centering adjustment. Integral tape dispenser. Complete with 100'-roll of 3/8" splicing tape and plastic dust cover. 12 oz.

TS-4S R 192.....**5.70**

TS-4J "STEREO 4" JUNIOR SPLICER. Same as TS-4S above, except without tape dispenser and splicing tape. Uses 3/8" splicing tape. With plastic dust cover. Shpg. wt., 8 oz.

TS-4J R 195.....**4.35**

80 R 200. RK-3. Replacement cutter cartridge, 2 cutting pads for TS-4S and TS-4J. Shpg. wt., 3 oz.....**.84¢**

H-4 "HOBBYIST" SPLICER. An excellent low-priced tape splicer. Consists of adhesive-backed plastic tape guide and unique curved razor-type blades. With instructions. Wt., 2 oz.

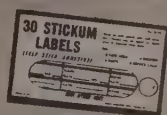
H-4 R 201.....**75¢**



Jockey Cloth



Tape Threader



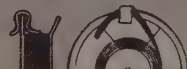
Reel Labels



Editing and Splicing Booklet



Splicing Tape



Tape Clips



Reel Holders

ESSENTIAL TAPE RECORDING ACCESSORIES

CT-2 "JOCKEY CLOTH". Cleans and lubricates tape while running. Protects by depositing silicone film on tape. Washable, reusable. Wt., 3 oz.

CT-2 R 152.....**60¢**

SPLICING TAPE. Mylar. All characteristics carefully controlled. 100' on 1" core. 1/2" v. wt., 1 oz.

Stock No.	Type	Width	EACH
80 R 202	ST-234	1/4"	24¢
80 R 203	ST-375	3/8"	27¢
80 R 155	ST-500	1/2"	30¢
80 R 204	ST-750	3/4"	36¢

CT-12 TAPE CLIPS. Keep tapes from unsplicing. Fit all reels. Plastic; reusable. 2 Per Pkg. Wt., 3 oz.

CT-12 R 153.....**PER PKG. 24¢**

CT-1 TAPE THREADER. For all 3" to 7" reels. Shpg. wt., 2 oz.

CT-1 R 166.....**60¢**

TE-24 TAPE EDITING AND SPLICING BOOKLET. By Haynes. Fully illustrated. 6x9". 24 pages.

TE-24 R 131. Postpaid in U.S.A.....**24¢**

TE-48 TELEVISION TAPE RECORDING BOOKLET. By Goodall. Illus. Video tape techniques. 6x9". 48 pages.

TE-48 R 126. Postpaid in U.S.A.....**60¢**

TE-96. WHAT YOU SHOULD KNOW ABOUT YOUR TAPE RECORDER. Illustrated book on care and use of recorders; trouble-shooting guide; up-to-date glossary. 6x9". 96 pages.

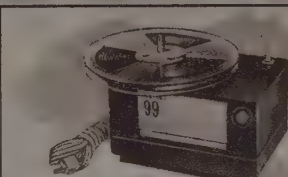
TE-96 R 167. Postpaid in U.S.A.....**60¢**

SL-30 REEL LABELS. Adhesive title labels. 30 per pkg. 2 oz.

SL-30 R 124.....**PER PKG. 27¢**

RH-2 REEL HOLDERS. Prevent wobbling. 2 per pkg. Wt., 3 oz.

RH-2 R 122.....**PER PKG. 51¢**



Deluxe Model ME-99 Bulk Tape Eraser



Model ME-77 Bulk Eraser



Model HD-3

Model HD-6

ME-99 BULK TAPE ERASER. Erases entire reel of tape at once, in just seconds. Lowers residual noise 3 to 6 db below most erase-head levels. Demagnetizes metal reels, also. For reels to 10", tapes to 1/2". 5 1/2"x6 3/4"x3 3/4". For 110 v., 50-60 cycle AC. U.L. Listed. 8 1/2 lbs.

ME-99 R 114.....**26.00**

ME-77 BULK TAPE ERASER. Low-cost version of ME-99. For reels to 7", tapes to 1/4". Erases 2 to 4 db below erase head levels. 2 1/2"x6 1/4"x3 3/4". For 110 v., 60 cycle AC. Shpg. wt., 5 lbs.

ME-77 R 130.....**14.70**

HD-6 HEAD DEMAGNETIZER. Removes residual magnetism from tape head for optimum signal-to-noise ratio. 4 5/8"x1 1/4". Dia. For 110 v., 60 cycle AC. U.L. Listed. Wt., 1 lb.

HD-6 R 154.....**6.00**

HD-3 HEAD DEMAGNETIZER. Low-cost version of above. 3 1/2"x1 1/4" dia. For 110 v., 60 cycle AC. Wt., 8 oz.

HD-3 R 127.....**3.60**



ROBINS-M/M 17-H TAPE HEAD MANUAL AND REFERENCE GUIDE

Complete cross-reference, replacement and conversion manual for tape heads. Listings arranged by name of head and recorder manufacturers. No charge with your next order.

80 R 280. Postpaid in U.S.A.....**21¢**

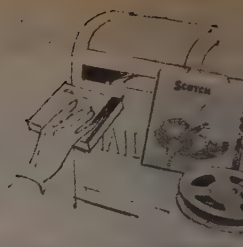
No Money Down with Allied's Credit Fund Plan

ALLIED 95



Scotch

Recording Tapes And Accessories



111 STANDARD—1 1/2-MIL ACETATE. High-quality general-purpose tape. Molded plastic reels, except *NAB aluminum 10 1/2" reel (3" center hole). Av. wt., 8 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
80 R 543	111-3	300'	4"	1.88	.79
80 R 547	111-6	600'	5"	1.47	1.32
80 R 548	111-12	1200'	7"	2.29	2.06
80 R 549	111-25R*	2500'	10 1/2"	7.06	6.35

120-12 HIGH-OUTPUT—1 1/2-MIL ACETATE. 7 db higher output. Offers greater dynamic range and freedom from distortion on signal peaks. 1200'. Plastic 7" reel. 12 oz.

80 R 554. 12-UP. EACH 2.06 1-11. EACH 2.29

131 LOW-PRINT—1 1/2-MIL ACETATE. *NAB reel. 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
80 R 534	131-12	1200'	7"	2.88	2.59
80 R 540	131-25R*	2500'	10 1/2"	7.98	7.17

150 EXTRA-PLAY—1-MIL POLYESTER. Extra-strong polyester base tape. Plastic reels except *NAB aluminum 10 1/2" reel (3" center hole). Av. wt., 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
80 R 531	150-9	900'	5"	2.35	2.12
80 R 532	150-18	1800'	7"	4.04	3.65
80 R 533	150-36R*	3600'	10 1/2"	9.41	8.47

190 EXTRA PLAY—1-MIL ACETATE. Gives 50% more playing time. Features high-potency oxide for complete purity of sound. *NAB aluminum reel (3" center hole). Shpg. wt., 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
80 R 550	190-9	900'	5"	2.29	2.06
80 R 552	190-18	1800'	7"	3.60	3.23
80 R 553	190-36R*	3600'	10 1/2"	8.40	7.56

TYPE 200 TENSILIZED TAPE. Super-strong, double-play tape. Polyester 1/2-mil. base. Av. shpg. wt., 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
80 R 500	200-12	1200'	5"	3.56	3.21
80 R 541	200-24	2400'	7"	6.20	5.58

NEW TYPE 175 HEAVY-DUTY "TENZAR" 1 1/2-MIL.

Has same wear-resistant, high potency oxide coating used in high-speed computer tapes. Resists heat, minimizes oxide rub-off despite continuous use. Won't dry out in storage or absorb moisture; won't pop or tear if edges become nicked. Lasts at least 15 times longer than ordinary tapes. 5" reels are 600'; 7" reels, 1200'. 10 oz.

Size	Clear	Red	Blue	Green	Yellow	EACH
						1-11 12-Up
5"	80 R 527	80 R 506	80 R 509	80 R 517	80 R 518	1.60 1.44
7"	80 R 528	80 R 520	80 R 522	80 R 523	80 R 525	2.50 2.25

151-17 LUBRICATED—1-MIL POLYESTER. For continuous loop cartridge application. External lubrication on backing side only. Dark red oxide. 1700'. 7" reel. Av. wt., 10 oz.

80 R 524. 12-Up. EACH 6.23 1-11. EACH 6.93



3 Reels of Tape Plus a "Self-Threading" Reel.

BONUS OFFER



Save 61¢! Buy a pack of three 7" reels of the Scotch tapes listed at right and get new empty "Self-Threading" reel for only 39¢. Eliminates tedious real threading—lets your recorder do the work.

"Living Letters"—You Can Talk to Friends Anywhere By Mail—Greatest Thing Since Long Distance Telephone!

"LIVING LETTERS" 3" TAPE. After recording, just write in address. Apply postage and drop in mail box. With mailable carton. 2

Stock No.	Mfr's Type	Base	Footage	EACH
				1-11 12-Up
80 R 542	111-1.5	Acetate	150'	.46 .44
80 R 502	150-2.25	Polyester	225'	.66 .55
80 R 530	200-3	Tensilized	300'	1.05 .95

NEW TYPE 290 TRIPLE LENGTH TENSILIZED. 1/2-Mil Polyester. 3 reel fits most transistorized portable records. Offers maximum available playing time per reel size—7" reels play 3 hours of stereo 7 1/2 ips. 3 1/4 reel, 4 oz. 7" reel, 1 1/2 lbs.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
80 R 544	290-6	600'	3 1/4"	1.93	1.73
80 R 545	290-36	3600'	7"	7.81	7.03

EMPTY PLASTIC REELS. With index box. 4 oz.

Stock No.	Type	Footage	Reel	1-11, EACH	12-Up, EACH
80 R 559			3"	17¢	15¢
80 R 563			4"	37¢	33¢
80 R 558			5"	44¢	39¢
80 R 556			7"	50¢	45¢

ONE-REEL MAILING BOXES. 3 oz.

Stock No.	Type	Footage	Reel	1-11, EACH	12-Up, EACH
80 R 602			3"	10¢	9¢
80 R 562			5"	10¢	9¢
80 R 561			7"	13¢	12¢
80 R 560			10 1/2"	20¢	18¢

TYPE 24 LEADER & TIMING TAPE. 100'. 80 R 569 is white; 80 R 568 is yellow. Dispenser pkg. 3 oz.

80 R 569.	12-Up.	EACH 53¢	1-11.	EACH 53¢
80 R 568.	12-Up.	EACH 53¢	1-11.	EACH 53¢

NEW TYPE 21-10 LEADER TAPE. White. 1000'. 7" reel. 8 oz.

80 R 546.	12-Up.	EACH 2.70	1-11.	EACH 2.70
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80 R 596. 8000 QUICK-LOAD CARTRIDGE. 560'. High-potency oxide for cartridge players. 9 oz. EACH 2.06

80 R 557. 41 1/2-SPLICING TAPE. Non-run adhesive on one side. 1/2-lb. Dispenser pkg. 3 oz. EACH 1.50

80 R 577. 51-7/8 S ALUMINIZED SENSING TAPE. For recorders automatic "stop" and "reverse" controls. Adhesive on one side. 1/2-lb. Dispenser pkg. 3 oz. EACH 1.50

TYPE 282 "SANDWICH" TAPE 1 1/2-MIL POLYESTER

Provides superb fidelity. Features protective, micro-thin plastic shield over oxide coating. Eliminates rub-off, wears up to 30 times longer, reduces tape recorder maintenance and head wear. Shpg. wt., 10 oz.

Size	Clear	Red	Blue	Green	Yellow	1-11 12-Up
5"	80 R 578	80 R 579	80 R 580	80 R 581	80 R 582	2.03 1.91
7"	80 R 583	80 R 586	80 R 587	80 R 589	80 R 590	3.23 2.91

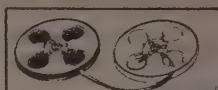
3-REEL PACKS WITH "SELF-THREADING" REEL

SPECIAL PREMIUM PACKS. One low package price includes the 7" Scotch tapes at regular prices, plus a "Self-threading" reel only 39¢ more—you save 61¢ in snap-lock plastic protector. New clear plastic reel eliminates tedious reel threading, speeds up changing—just place the tape end on the hub and let your recorder do the rest. Types ST-190-18 and ST-150-18 are extra-play; ST-200-24 is tensilized for extra strength and durability. Shpg. wt., 2 lbs.

80 R 513.	ST-111-12. 1200' 1 1/2-Mil Acetate.	PACK 7.99
80 R 514.	ST-190-18. 1800' 1-Mil Acetate.	PACK 11.99
80 R 515.	ST-150-18. 1800' 1-Mil Polyester.	PACK 11.99
80 R 516.	ST-200-24. 2400' 1/2-Mil Polyester.	PACK 11.99



audiotape



All Audiotapes Feature
Famous C-Slot Reel For
Faster, Easier Threading



LONGER-RECORDING—1-MIL. "MYLAR." 50% more recording
on NAB aluminum reel. Self-mailer certon. 12 oz.

Stock No.	Type	Footage	Reel	Each	Lot Price
80 R 700	261	225'	3"	.66	.59†
80 R 701	961	900'	5"	2.35	2.12†
80 R 702	1861	1800'	7"	4.05	3.65†
80 R 703	3661R*	3600'	10½"	9.41	8.47†

ACH, 10 or more. EACH, 5 or more.

LOW-PRINT. *1½-mil acetate. †1½-mil "Mylar." 12 oz.

Stock No.	Type	Footage	Reel	1-4, EA.	5-9, EA.	10-UP, EA.
80 R 608	1251-M*	1200'	7"	2.80	2.80	2.53
80 R 607	2551R-M*	2500'	10½"	8.16	7.35	7.35
80 R 609	1271M†	1200'	7"	3.33	3.33	3.00
80 R 610	2571R-M†	2500'	10½"	8.82	8.82	7.94

TEMPERED "MYLAR." ½-mil tape. Plastic reel. 8 oz.

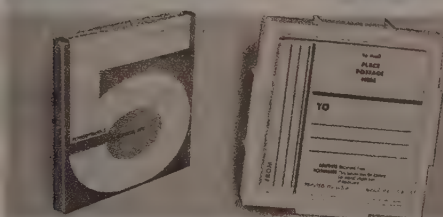
Stock No.	Type	Reel	Length	1-9, EA.	10-UP, EA.
80 R 619	1231T	5"	1200'	3.56	3.20
80 R 622	2431T	7"	2400'	6.20	5.59



Red Seal Tapes by RCA "THE MOST TRUSTED NAME IN SOUND"

Record by recording studios for highest-quality reproduction. Constant oxide thickness provides minimum background noise and

Stock No.	Mfr's Type	Lgth. Ft.	Mil	Reel Size	Base	EACH	
						1-11	12-UP
80 R 726	15A-1.5	150	1½	3"	Acetate	.46	.41
80 R 713	10A-18	1800	1	7"	Acetate	3.67	3.30
80 R 710	15A-12	1200	1½	7"	Acetate	2.29	2.06
80 R 751	10M-2.25	225	1	3"	Mylar	.66	.59
80 R 737	STM-3*	300	½	3"	Mylar	1.05	.94
80 R 765	STM-6*	600	½	4"	Mylar	2.03	1.83
80 R 714	15M-6	600	1½	5"	Mylar	1.73	1.56
80 R 716	10M-9	900	1	5"	Mylar	2.35	2.12



FERRODYNAMICS TAPES AND ACCESSORIES

NEW "BRAND 5" TAPE. For economical conversion of old record libraries, taping radio programs, etc. *Tensitized. 7" reel. 10 oz.

Stock No.	Mfr's Type	Description	EACH	
			1-11	12-UP
80 R 841	15D7	1½-mil Acetate, 1200'	1.68	1.49
80 R 842	10D7	1-mil Acetate, 1800'	2.28	1.99
80 R 843	10D7M	1-mil Mylar, 1800'	2.80	2.49
80 R 844	5D7MT*	½-mil Mylar, 2400'	4.92	4.39

CORRESPONDENCE TAPE. Small, long-play reel in new re-usable plastic mailer. *Plays 1-hr. @ 1½ ips., continuous. 4 oz.

Stock No.	Mfr's Type	Description	1-9, EA.	10-UP, EA.
80 R 779	5C3-2M*	½-mil Mylar, 3¼", 600'	1.29	1.16
80 R 845	10C3	½-mil Acetate, 3", 225'	.58	.52
80 R 846	5C3M	½-mil Mylar, 3", 300'	.75	.66

½ TAKE-UP REEL. Boxed. Shpg. wt., 4 oz.

80 R 825, 12-Up... EACH 23¢ 1-11... EACH 25¢

REVERSIBLE CARDS. Set of 5 reversible cards. 2 oz.

80 R 847, 12-Up... PER SET 29¢ 1-11... PER SET 33¢

Buy Tapes in Quantity on Allied's Credit Fund Plan

TAPE RECORDER REELS. 10½". With box. *3" center. Wt. 8 oz.

Stock No.	Type	Description	1-4, EA.	5-UP, EA.
80 R 630	10RB	NAB aluminum*		
80 R 704	10FS	Fiberglass, EIA adapterless ¾" center	2.62	2.35

COLORS EMPTY PLASTIC REELS. Supplied in boxes. 4 oz.

Reel Size	Clear	Red	Yellow	Green	Blue	1-9	10-UP
5"	80 R 695	80 R 655	80 R 663	80 R 669	80 R 671	39¢	35¢
7"	80 R 685	80 R 657	80 R 667	80 R 670	80 R 674	49¢	44¢

80 R 618. "Mylar" Self-Timing Leader. Has spaced markings for timing. White. 100' Wt., 5 oz. EACH 37¢

80 R 124. SL-30S Identification Labels. Self-adhesive. ½x2" Labels. 30 per pkg. Wt., 4 oz. PER PKG. 12¢

80 R 606. Head Alignment Tape. 300' on 4" reel. 1½-Mil "Mylar." Shpg. wt., 4 oz. EACH 5.88

lowest distortion. Minimum response: 0-31,000 cps. *Tensitized. Av. shpg. wt., 10 oz.

Stock No.	Mfr's Type	Lgth. Ft.	Mil	Reel Size	Base	EACH	
						1-11	12-UP
80 R 739	5TM-12*	1200	½	5"	Mylar	3.11	2.79
80 R 715	15M-12	1200	½	7"	Mylar	2.77	2.50
80 R 717	10M-18	1800	1	7"	Mylar	4.05	3.65
80 R 750	5TM-24*	2400	½	7"	Mylar	5.71	5.14

264-C1 SNAP-LOAD TAPE CARTRIDGE. Contains 560' of "Red Seal" 1-mil "Mylar" tape. 9 oz. EACH 2.70

80 R 797... EACH 2.70



REEVES SOUND CRAFT AND GOLDEN TONE TAPES

"LIFETIME"—1½-MIL "MYLAR." Micropolished. On plastic reels. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Footage	Reel Size	1-9, EA.	10-UP, EA.
80 R 815	L-6	600'	5"	1.73	1.56
80 R 820	L-12	1200'	7"	2.77	2.50

XP-24 "PLUS 100"—½-MIL "MYLAR." Extra-play, micropolished. Requires careful handling. 2400'. 7" plastic reel. 14 oz.

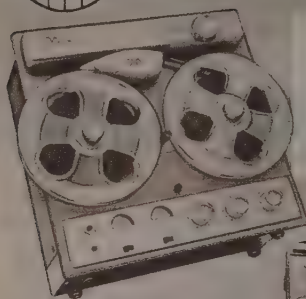
80 R 824, 10-Up... EACH 3.82 1-9... EACH 4.25

GOLDEN TONE TAPE. For exacting equipment and the discerning ear. 7 db signal-to-noise ratio gives recordings great dynamic range. Micro-polished oxide surface removes any irregularity, prevents drop-outs, protects high frequency response and minimizes head wear. *Tensitized. 7" reel. Av. shpg. wt., 12 oz.

Stock No.	Type	Description	1-9, EA.	10-UP, EA.
80 R 826	10817*	1-mil Mylar, 1800'	5.00	4.50
80 R 827	10818*	½-mil Mylar, 2400'	7.60	6.84
80 R 828	10816	½-mil Acetate, 1200'	3.13	2.82



Dependable Stereo Tape Recorder



"Compact 76"
Stereo Recorder

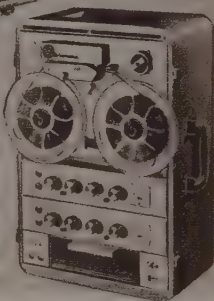
\$199⁵⁰

\$10 monthly

Model 86-RMQ
Stereo Recorder

\$392⁰⁰

\$18 monthly



\$349⁵⁰

\$17 monthly

SAVE
\$41.85

STEREO COMPACT RECORDER AND BONUS

With this carefully selected bonus package, you can easily make, professional-quality stereo or mono tape recordings, keep your equipment in the peak of condition and save \$41.85 in the bargain. You get: Model 86-RMQ Stereo-Compact Tape Transport; 2—Knight KN-4500 Microphones with Desk Stands and 10' of Cable, 5—7" Reels of KN-12 1½ Mil "Mylar" Recording Tape; 150' of Leader Tape; Tape Threader; 2-oz. Bottle of Head Cleaner; Tape Splicer and 150' of Splicing Tape; Head Demagnetizer; Bottle of Tape and Head Lubricant; 24-Page Booklet on "Tape Editing and Splicing"; 30 Adhesive Identification Labels; 12 Tape Clips and a Tape Cleaning Cloth. Model 86-RMQ Compact, with built-in preamps, records and monitors 4-track stereo and mono; plays 2 or 4-track stereo and mono; delivers a wide range 25-18,000 cps response (± 3 db). Features sound-on-sound and special effects, 7½ and 3¾ ips speeds with automatic equalization and headshift control for 2 or 4-track playback, recording safety interlock, automatic shutoff, 2 VU meters, record indicator light and digital counter. Built-in multiplex filter. Knight KN-4500 mikes have all-directional pickup pattern with 60-12,000 cps response. Less case, below. 13x13x7¾". 12½ sq. cutout. For 110 respo, 60 cycle AC. Shpg. wt., 50 lbs.

23 HF 156-D. \$15 Monthly.....	349.50
86-RMQ Compact Alone. Shpg. wt., 28 lbs.	
79 RU 421-D. \$15 Monthly.....	324.50
D98-B Portable Case for 86-RMQ Compact. Wt., 14 lbs.	
79 RU 967-D. \$5 Monthly.....	39.50
79 RU 427-D. RMQ Tape Transport Alone. \$9 Monthly. 17 lbs. 163.50	
79 RU 472-D. RP83-3 Preamp. Alone. \$5 Monthly. 7 lbs. 94.50	

"COMPACT 76" STEREO TAPE RECORDER

Add 4-track stereo and monophonic recordings to your music system with this versatile, easy-to-use recorder. Consists of a 2-speed transport with two 4-track heads (erase and record/play) and stereo-recording preamp. Specifications: **Speed:** 7½ and 3¾ ips. **Reel Size:** to 7" max. **Response:** 30-16,000 cps (± 3 db) at 7½ ips. **Wow and Flutter:** less than .2%. **SN/Ratio:** 50 db or better. **Inputs:** mike and tape head (on front panel); high-level (Radio TV/Phono) on rear panel. **Outputs:** playback head and sound monitor (a third head for tape-monitor can be added). **Rewind Speed:** 1200-ft. reel, 80 seconds. **Controls:** single, rotary-type for Rewind, Stop, Play, Fast Forward; Tape Speed Selector; Stereo Mono; Volume, for each channel; and Function for On-Off, Play and Record. Custom-mounts vertically or horizontally. Handsome two-tone brown 13x13x6¼" deep; requires 12½ sq. cutout. For 110-120 volts, 60 cycle AC. Shpg. wt., 31 lbs.

79 RU 426-D. \$10 Monthly.....

199.50

86-RMQ "STEREO SUPER-PRO" RECORDER

An improved professional-quality portable tape recorder, using the Model 86-RMQ transport and two RP83-3 preamps. Records and monitors 4-track stereo or mono; plays 2 or 4-track stereo or mono. Has separate inputs for mike and tuner—or mixer-preamp sound-on-sound recording, "Erase Protect" switch. **Response** ($\pm$ db): 30-16,000 cps at 7½ ips; 25-12,000 cps at 3¾ ips. **S/N Ratio** —85 db at 7½ ips. **Wow and Flutter:** less than 0.2% rms. Built-in multiplex filter. Brown case, 20¾x13¾x10¼". Takes 7" reel. For 110-120 v., 60 cycle AC. Shpg. wt., 43 lbs.

79 RU 426-D. \$18 Monthly.....

392.00

- Three Motors
- 4-Track Stereo and Mono
- Built-In 6-Watt Amplifiers

\$860⁰⁰

\$36 monthly



- Automatically Plays Back 4-Track Stereo Tape In Either Direction

MODEL 220 "RETROMATIC" STEREO RECORDER

A feature-studded tape recorder to satisfy the most discriminating music lover. It's "Retromatic"—a timed silence-sensing device detects the end of the program, automatically reverses the motion and switches the playback heads. Has 2-speed, hysteresis synchronous capstan-motor and two shaded 4-pole reel-drive motor with positive, solenoid-controlled braking. Head configuration of hyperbolic heads records, plays and erases 4-track stereo and monophonic; a photo electric run-off sensor shuts the transport off automatically so that the tape never runs off the reels. Eliminates the fuss and bother of turning reels over and rethreading tape. Other features include: the latest design in solid-state and convention circuitry; two 6-watt playback power amplifiers; simultaneous recording and playback for monitoring; all-electric, pushbutton operation; 2 illuminated level indicators; mixing mic; adjustable equalization and digital counter. **Response:** 20-25,000 cps at 7½ ips. 20-15,000 cps at 3¾ ips. **Wow and Flutter:** less than 0.2% at 7½ ips. **Signal-to-Noise Ratio:** 55 db. **Input Sensitivity:** 1-100 mv. **Distortion:** 1% at "O" VU. **Rewind:** 1200' reel in 60 seconds. **Less remote control and case, below. 15x16x8". For 110-120 v., 60 cycle AC. 48 lbs.**

79 RU 960-D. \$36 Monthly.....	860.00
RC22 Remote Control Center. For 220, above. With 6' cable. 2.11	
79 RX 961-D. \$5 Monthly.....	59.50
2020 Walnut Case. For 220 "Retromatic," above. 12 lbs.	
79 RX 962-D. \$5 Monthly.....	31.50
2025 Portable Case. For "Retromatic," above. 15 lbs.	
79 RX 963-D. \$5 Monthly.....	55.50

"Special Formula" Magnetic Tape



KNIGHT

OUTSTANDING VALUE IN HIGH-QUALITY TAPE

HIGH-QUALITY RECORDING TAPE

Available only at Allied, Knight's Special Formula Tape is made to higher standards than most higher-priced tapes. You get supreme value!



ACETATE



MYLAR



PLUS-PLAY MYLAR

As low as **\$1.15** 5-lot price

As low as **\$1.39** 5-lot price

As low as **\$1.85** 5-lot price

KN-70 1½-MIL ACETATE TAPE

Our lowest-priced recording tape, the KN-70 is your first choice for general-purpose taping at minimum expense. Its low price slashes your recording costs to a fraction of what you'd normally expect—yet you enjoy excellent response and low noise levels, plus increased tape-life because of deep lubrication. Also has precision-applied oxide surface. Output level is uniform. Splice-free. In 1200-ft., 7" reel. 1 lb.

R 963D. 5-Up... EACH 1.15 14... EACH 1.25

SPECIAL TAPE AND CHEST OFFER. Save \$1.29. 5 reels (6000 ft.) of KN-70 tape, plus hinge-top brown and white carrying case. Wt., 6½ lbs.

R 964D. 5 Tapes Plus Chest... **6.45**

R 950D. Case Alone. 1½ lbs. **1.49**

KN-12 1½-MIL "MYLAR" TAPE

Our strongest Special Formula tape. Has tough, durable "Mylar" polyester base that can take rough handling. Special, patented oxide formula ensures maximum fidelity and performance. Deep lubrication minimizes tape-head wear for even greater operating economy. Guaranteed splice-free. 7" reel; 1200 ft. Wt., 1 lb.

80 R 959D. 5-Up. EACH 1.39 14.... EACH 1.49

SPECIAL TAPE AND CHEST OFFER. Save \$1.29. 5 reels (6000 ft.) of KN-12 tape and \$1.49 brown and white carrying case. Shpg. wt., 6½ lbs.

80 R 961D. 5 Tapes Plus Chest... **7.65**

79 RX 889D. Save \$2.95. 10 reels (12,000 ft.) of KN-12 tape and deluxe \$5.95 wood case. 11 lbs. **17.90**

FOR LONGER RUNS—KNIGHT KN-20 PLUS-PLAY 1-MIL "MYLAR" TAPE

120 Plus-Play tape gives you 50% more recording time than standard 1½-mil tape—and offers excellent audio quality. "Mylar" polyester base resists breakage, scratching, heat and humidity—ideal for outdoor recording. Deep-lubricated for lower head-wear. Guaranteed splice-free. 7" reel; 1800 ft. 1½ lbs.

R 960D. 5-Up... EACH 1.85 14... EACH 1.98

SPECIAL TAPE AND CHEST OFFER. Save \$1.44. 5 reels (9000 ft.) of KN-20 tape, and \$1.49 brown and white carrying case. Shpg. wt., 6½ lbs.

80 R 962D. 5 Tapes Plus Chest... **9.95**

79 RX 890D. Save \$3.25. 10 reels (18,000 ft.) of KN-20 tape and deluxe \$5.95 blue and white, leatherette-covered wood carrying case. 11 lbs. **22.50**

See Special Offers Above

SAVE ON CARRYING CASE AND 5 REELS OF TAPE

Save up to \$1.44 on brown and white hinge-top carrying case and 5 reels of KN-70, KN-12, or KN-20 tape.



Special Offers

SEE ABOVE

SAVE ON DELUXE CASE AND 10 REELS OF TAPE

Save up to \$3.25 on blue and white leatherette wood case and 10 reels of KN-12 or 20.



Allied Always Guarantees Your Satisfaction

ALLIED 99



PROFESSIONAL RECORDING TAPE

Made in the most modern U.S. factories... high quality is maintained rigidly in each phase of manufacture.

Double inspected... to meet Allied's high standards—ensures absolute uniformity.

Guaranteed splice-free. Knightapes are not patchwork pieces—Every reel is one continuous length.

Finest materials. Tape coating is specially applied to help prevent rub-off on tape heads.

Highest-Quality Recording Tape

WIDELY ACCLAIMED BY STUDIOS, SCHOOLS



As low **90¢** 5-lot price
as

As low **\$1.89** 5-lot price
as

KN-15 STANDARD 1½-MIL ACETATE TAPE

- Same Kind of Tape Used by Major Recording Studios
- Each Reel Is Guaranteed to Be Splice-Free
- Has Purest Red-Oxide Surface • Deep-Lubricated

Our KN-15 tape compares well with any brand of 1½-mil acetate-base tape, regardless of cost. Quality protected, KN-15 gives fine results in professional as well as in home recording applications. Employs purest red oxide surface, precision-applied and deep-lubricated, to ensure excellent results. Guaranteed splice-free. Hinged box sealed in cellophane.

Stock No.	Feet	Reel	Lbs.	1-4, EACH	5-Up, EACH
80 R 951 D	600	5"	½	.99	.90
80 R 952 D	1200	7"	1	1.59	1.49

KN-30 PLUS-PLAY 1-MIL ACETATE

- Up to 12¾ Hours Recording Time on One 7" Reel
- Offers Big Savings. • Has Special Oxide Coating
- One of the Most Popular Recording Tapes Available

Our KN-30 is one of the most popular recording tapes available today. The 50% additional length provided Plus-Play tape lets you make uninterrupted recordings entire concerts, conferences, or broadcasts you wish to capture permanently, on tape. Also offers excellent savings. KN-30 features a thinner base and special coating of oxide for full-range audio response. Cellophane-sealed, hinged box. Footage 1800 ft. Reel size 7" Shpg. wt., 1¼ lbs.

80 R 954D. 5-Up... EACH 1.89 1-4... EACH 1.99

QUICK GUIDE TO TAPE PLAYING TIMES

Tape Thickness	Reel Size	Tape Footage	½-TRACK (2-Track Mono, 4-Track Stereo)—Total Time Both Tracks			QUARTER-TRACK 4-Track Mono—Total Time 4 Tracks		
			SPEED (INCHES PER SECOND)			SPEED (INCHES PER SECOND)		
Standard 1½-Mil	3"	150	1½ hr.	15 min.	7½ min.	1 hr.	¾ hr.	15 min.
	4"	300	1 hr.	¾ hr.	15 min.	2 hrs.	1 hr.	¾ hr.
	5"	600	2 hrs.	2 hrs.	1 hr.	4 hrs.	2 hrs.	1 hr.
Plus-Play 1-Mil	5"	900	3 hrs.	1½ hrs.	45 min.	6 hrs.	3 hrs.	1½ hrs.
	7"	1800	6 hrs.	3 hrs.	1½ hrs.	12 hrs.	6 hrs.	3 hrs.
Double-Play ½-Mil	3"	300	1 hr.	15 min.	7½ min.	2 hrs.	1 hr.	¾ hr.
	5"	1200	4 hrs.	2 hrs.	1 hr.	8 hrs.	4 hrs.	2 hrs.
	7"	2400	8 hrs.	4 hrs.	2 hrs.	16 hrs.	8 hrs.	4 hrs.

KN-10 3" REEL OF ½-MIL "MYLAR"

As Low As 63¢ Each in Lots of 10

Buy 10 Reels or
More and Save

Enjoy twice the standard playing time. Full half-hour at 3¾ ips—300-ft of ½-mil "Mylar" In self-mailing carton. Shpg. wt., 8 oz.

80 R 958D... EACH 69¢
10 or More... EACH 63¢
3¾" REEL, 600 FT. ½-mil tape as above, in self-mailing carton. 8 oz.
80 R 967D. 1-9... 1.20
10 or More... EACH 1.09

ACCESSORY TAPE KIT FOR BATTERY RECORDERS

Save 48¢ on this extra-convenient accessory package selected to complement 3" reel type tape recorders. Items purchased separately cost \$6.99. Kit contains: 3—3" reels (300 ft.) or KN-10 ½-mil tape; empty 3" reel; tape splicer; 12 tape clips; 2-oz. bottle of tape head cleaner; 100" splicing tape; informative booklet on editing and splicing. Shpg. wt., 5 lbs.
79 RU 896D... 4.99

Available Exclusively at Allied

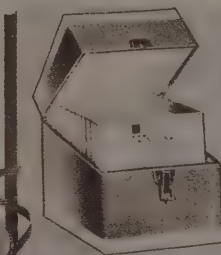
ID RECORDING ENTHUSIASTS EVERYWHERE



PROFESSIONAL RECORDING TAPE



As low **\$1.56** 5-lb
as price



**Special
Offer**

Save up to \$10.45 on this offer of
10 reels of Knight KN-50 or
KN-60 Recording tape in a
wood carrying case.



OUR
FINEST
RECORDING
TAPE

As low **\$4.40** 5-lb
as price

KN-50 PLUS-PLAY 1-MIL "MYLAR"

First choice of professionals—outperforms tapes costing
as much, and records 50% longer than standard
tapes. Tough "Mylar" base is moisture and heat-resistant.
Pre-lubrication protects heads; treated surface gives
high sensitivity. Tensile strength meets government specs.
Airtight cellophane-sealed hinged box.

Stock No.	Feet	Reel	Lbs.	1-4, EACH	5-Up, EACH
R 955 D	900	3"	3/4	1.69	1.56
R 956 D	1800	7"	1 1/2	2.49	2.25

10 REELS OF KN-50 WITH CASE

Save \$4.00. 18,000 ft. of deluxe-quality 1-mil "Mylar"
plus-play KN-50 in wood carrying case. 14 lbs.
RX 891D. \$5 Monthly..... **26.85**

KN-60 1/2-MIL TENSILIZED "MYLAR"

For the very best sound quality, plus double playing-
time and tensile strength, KN-60 leads the field. Boasts
rugged "Mylar" base that's "Tensitized" for greater
strength—highly resistant to stretching, breakage, mois-
ture, heat and humidity. Features unique polishing pro-
cess that removes any microscopic irregularities from tape.
Supplied in 7", 2400-ft. reels. Sealed in cellophane.
Shpg. wt., 1 1/2 lbs.

80 R 957D. 5-Up..... EACH 4.40 1-4..... EACH 4.95

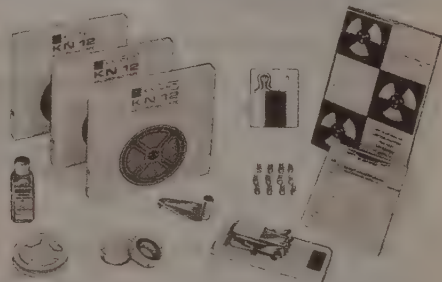
10 REELS OF KN-60 WITH CASE

Save \$10.45. 24,000 ft. of 1/2-mil tensitized "Mylar"—
extra-long play KN-60 in wood case. 8 lbs.
79 RX 897D. \$5 Monthly..... **45.00**



SAVE \$4.10 ON PROFESSIONAL TAPE KIT

Just what every serious recordist needs. Items purchased
separately cost \$23.05. Professional kit consists of: 5—7" reels
Knight KN-12 1 1/2-mil "Mylar" tape; head demagnetizer for
maintaining "like new" recorder performance; tape cleaning
brush; 150' of leader tape; tape splicer; 150" of splicing
tape; 2-page booklet describing the "ins and outs" of tape editing
and splicing; tape threader; 2-oz. bottle of head cleaner; 30
adhesive tape-identification labels; 12 tape clips to keep reels
from unwinding. Shpg. wt., 8 lbs.
RX 898D..... **18.95**



LOW-COST TAPE ACCESSORY KIT YOU SAVE \$1.99

Has essential accessories for recording fans.
Items purchased separately cost \$11.94. Consists
of: 3—7" reels of KN-12 1 1/2-Mil "Mylar" tape;
150' of leader tape; tape splicer; 150" of splicing
tape; informative 24-page booklet on tape editing
and splicing; tape threader; 2-oz. bottle of head
cleaner; 30 tape-identification labels; 12 tape
clips. Shpg. wt., 6 lbs.
79 RX 893D..... **9.95**

You Get More for Your Money When You Buy from Allied

ALLIED 101



**DELUXE TAPE
EQUIPMENT**

Compact Stereo Hi-Fi Tape Deck

PROFESSIONAL QUALITY . . . ECONOMICAL PRICE

Value-Plus

\$179⁹⁵

\$9 monthly

Look What You Get:

- Built-In Record/Play Preamplifier
- 4-Track Record/Play Head
- Records Stereo Multiplex
- Two Speeds— $7\frac{1}{2}$ and $3\frac{3}{4}$ ips
- Easily Custom-Mounted—Vertically or Horizontally
- 50-15,000 cps at $7\frac{1}{2}$ ips



Optional: Handsome Scuff-Proof Cream and Beige Carrying Case with Detachable Front Cover

**KN
4400**

PROFESSIONAL 2-SPEED STEREO TAPE DECK

Thrill to the full potential of taped stereophonic sound, by adding this precision-built tape deck to your hi-fi music system. You'll be overwhelmed by a new experience in audio depth and realism. The KN-4400 offers complete 4-track stereo and monophonic tape facilities. Features a deluxe laminated 4-track record/play head and a double-gap erase head. Built-in stereo record/play preamplifiers include dual VU meters for precise recording-level adjustment. Attractively styled in matte beige.

Single lever selects fast-rewind, stop, play or fast-forward. Just touch a button to change speeds. Digital tape counter. Controls: record-play-off; volume 1 and 2 (record and play); stereo-mono; mike/tape-head. Inputs: mike/tape-head 1 and 2; high-level 1 and 2 (at rear).

Speeds: $7\frac{1}{2}$ and $3\frac{3}{4}$ ips. **Response:** ± 3 db, 50-15,000 cps at $7\frac{1}{2}$ ips; ± 3.5 db, 50-10,000 cps at $3\frac{3}{4}$ ips. **Signal-to-Noise Ratio:** better than 40 db. **Flutter and Wow:** less than 0.2% rms. **Hum and Noise:** 50 db below peak recording level. Maximum reel size, 7".

The ultra-compact KN-4400 is excellent for custom installation. Only $13 \times 6\frac{1}{4}$ ". Requires $12\frac{1}{2}$ " square cutout. For 110-120 volts, 60 cycle AC. Shpg. wt., 31 lbs.

79 RU 882D. \$9 Monthly. 179.95

79 RU 871D. Carrying Case for KN-4400. Cream and beige. Scuff-proof. Detachable front cover. Size, $16 \times 14 \times 8$ " Shpg. wt., 18 lbs. 19.95

SPECIAL FEATURES



Precision VU Meters Permit Accurate Setting of the KN-4400's Recording Level



Convenient Single Slider-Type Lever Selects all Functions Instantly



Precision, Digital Footage Counter Provides a Great Aid in Cueing, Editing and Indexing

Custom Preamp and Transport



DELUXE TAPE EQUIPMENT



KN

4002 PROFESSIONAL STEREO TAPE RECORD/PLAY PREAMP

79⁹⁵

monthly

- Reduced \$20.00 from Our 1963 Catalog
- Separate Dual-Channel Record and Playback Preamplifiers

Reduced in price for 1964, our KN-4002 is a stand-out value. Matches the KN-4000 transport (below) perfectly. Together, they offer everything you need to record and play 4-track stereo and monophonic tapes of incomparable fidelity. They can produce many special effects, too. Preamp has dual, concentric controls to adjust record and play levels on each channel, separately or together. Twin indicators show record-levels. Safety-beacon lights when unit is on "Record". Separate equalization for each speed. Switch permits source/tape comparison. Response: ± 3 db, 30-16,000 cps at $7\frac{1}{2}$ ips. ± 3 db, 30-16,000 cps at $3\frac{3}{4}$ ips. Hum & Noise: 50 db below peak record-level. Desert Beige, Sand Gold. $4\frac{1}{2} \times 15\frac{1}{2} \times 8\frac{1}{4}$ ". With 4 audio cables. Less case, below. For 110-125 v., cycle AC. Shpg. wt., 18 lbs.

RU 880D. \$5 Monthly.....79.95

RX 881D. Metal Case. Cordovan Gray. 5 lbs....4.95

DELUXE RECORD/PLAY TRANSPORT

129⁹⁵

monthly

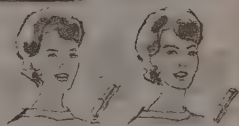
- With the KN-4002, Records and Plays 4-Track Stereo and Mono Tapes
- 3 Motors • 3 Heads • 2 Speeds

Our deluxe KN-4000 stands far above all other transports in its price range. Features 3 heavy-duty 4-pole motors (two direct-drive spooling, one capstan), and 3 separate heads for record, playback and erase. Also: DC dynamic braking for gentle, but instant-stops; provision for monitoring from source or tape; digital footage counter; automatic shut-off when tape runs out. Seven piano-key pushbutton controls: Tape Speed ($7\frac{1}{2}$ and $3\frac{3}{4}$ ips); Off; Run; Fast Forward; Reverse; Standby (to disengage roller from capstan). Response: ± 3 db, 30-16,000 cps at $7\frac{1}{2}$ ips. Flutter and Wow: 0.25% at $7\frac{1}{2}$ ips. Signal-to-noise Ratio: 55 db. Desert Beige, Sand Gold. With 2 cables, take up reel $13\frac{1}{2} \times 15\frac{1}{4} \times 7$ ". For 110-120 v., 60 cycle AC. 27 lbs.

RU 879D. \$7 Monthly.....129.95

RU 870D. Carrying case. For KN-4002 and KN-4000 together. Cream and Beige. $20 \times 16\frac{1}{2} \times 11\frac{1}{2}$ ". 18 lbs. 24.95

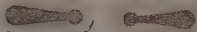
Sound-on-Sound Recording and Other Special Audio Effects Are Easy to Make



Use of Echo Effects Adds a Fascinating New Dimension to Recordings

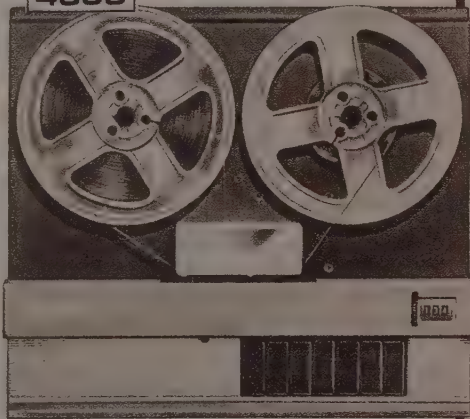


Two Indicator Lights Continuously Show Record-Level on Each Channel



KN
4000

CUSTOM-CONSTRUCTED... There Are No Belts, Pulleys or Levers.



PROFESSIONAL FEATURES

Check Out all that You Get: Great Features that Make this a Deluxe Transport



3 Precision Motors



7 Pushbutton Keys



3 Separate Heads



KNIGHT Tape Recorders

KN-4120 STEREO-PLAYBACK PORTABLE RECORDER

ALL NEW!

\$139⁹⁵

- Plays 4-Track Stereophonic Tapes Through Its Own Detachable High-Fidelity Speakers
- Records and Plays 4-Track Monophonic Tapes
- Simultrack Sound-with-Sound • 12-Watt Amplifier
- Recording-Level Indicator • Tone Controls

Your dreams of a budget-priced recorder that's packed with deluxe features, come true in the new KN-4120. For dollar value, you can't top this 2-speed portable that plays 4-track stereo tapes with striking realism, through its own speaker systems. Also plays, and records, 4-track monophonic tapes. Trim and lightweight for easy carrying, and richly styled in black and gray for prestige appearance.

Two wing enclosures, each with a 6" speaker, can be placed at optimum distance for best channel separation; deliver exceptionally clean sound on each channel. Powerful 12-watt stereo amplifier. Tone controls let you adjust response. Features Sound-with-Sound recording for musical duets and language study. Operation is simple—single lever instantly selects play-idle-record functions. You don't have to worry about accidentally erasing tape—safety-interlock is always on guard. More features: neon recording-level indicator; fast-forward and lock-in rewind controls; tape-footage digital counter; radio-phonograph and mike inputs; preamp outputs.

The KN-4120 also has two external-speaker outputs. **Speeds:** 7½ and 3¾ ips. **Response:** 50-12,000 cps at 7½ ips. **Flutter and Wow:** below 0.3% at 7½ ips. **Signal-to-Noise Ratio:** 40 db. With microphone, 7" reel of Knight KN-12 "Special Formula" tape, 7" take-up reel, and patch cord. Size, 8½x21¼x14¼". For 110-120 v., 60 cycle AC. Shpg. wt., 33 lbs.

79 RU 941-D. \$7 Monthly..... **139.95**

KN-4035 2-SPEED PORTABLE TAPE RECORDER OUR LOWEST-COST MODEL—A GREAT VALUE

\$69⁹⁵

\$5 monthly

- Up to 6 Hours, 24 Minutes Time on 3600', 7" Reel
- Powerful Built-In 6-Watt Amplifier and 5" Speaker
- Provision for Recording from Radio, TV or Phono
- Recording-Level Indicator • Single-Lever Control

When you see and use the KN-4035, you'll wonder how a quality recorder could ever sell at so low a price. First-class circuitry, all essential controls, and important extras provide excellent performance and remarkably true and clear 2-track monophonic recordings. Operation is simplified—everyone in the family can join in the fun. Lightweight (only 19 lbs.) for carrying ease—goes anywhere for on-the-spot recordings. And everyone will admire its rich blue and gray leather-grain finish.

Give some thought to these unusual features for a tape recorder in this price range: two fingertip-selected speeds of 7½ and 3¾ ips; husky 6-watt amplifier coupled to a quality 5" speaker for smooth, impressive reproduction of both speech and music; provision for recording from microphone, radio, TV or phono; output for playback through an external speaker; recording-level indicator; safety interlock to prevent accidental erasure. Has fast-forward and rewind control. Uniform braking on both reels prevents tape from stretching or breaking. Accepts reels up to 7". Also has handy tape footage guide on deck plate to aid in cuing and editing.

Frequency Response: 50 to 10,000 cps at 7½ ips. **Flutter and Wow:** less than 0.3% at 7½ ips. **Signal-To-Noise Ratio:** 40 db. Complete with Knight crystal microphone, 7" take-up reel, and patch cord. Only 8x11½x15" deep. For 110-120 v., 60 cycle AC. Shpg. wt., 27 lbs.

79 RU 872-D. \$5 Monthly..... **69.95**

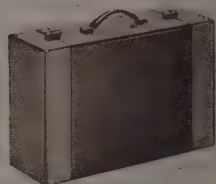


Learn with
Tape—Rec
Lectures,

Aids Speech
and music
Training



Add a Stereo Nook to Your Home



Easy-to-Carry Fold-Up Case



Add
Dime
Fami



Ideal for Long Dictating
Sessions in the Office



Compact and Lightweight



KN
4120

KN
4035



LINCOLN

7-Transistor
2-Speed Portable

\$89⁹⁵

\$5 monthly



A



Use it Anywhere



Remote-Control
Dynamic

Portable Recorders . . . Priced for Value

LINCOLN



4-Transistor
Subminiature

B

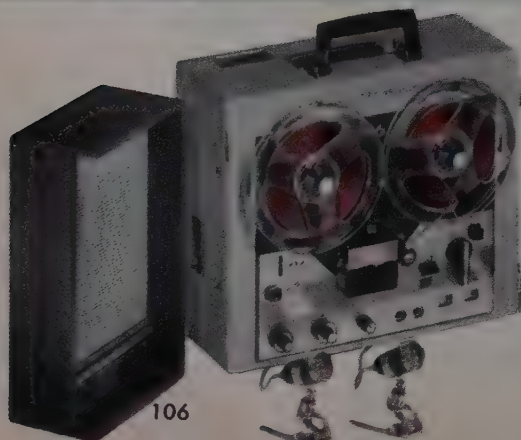
\$29⁹⁵ \$5
monthly



6-Transistor, **\$79⁸⁸**

Attache Case

\$5
monthly



106



Deluxe Portable
Stereo Recorder

\$179⁹⁵ \$9
monthly

D

A LINCOLN® 7-TRANSISTOR DELUXE RECORDER

- Our Best Battery Tape Recorder
- Up to 128 Minutes Recording Time
- Provision for AC Operation
- Fast Forward and Rewind Functions

- Remote-Control Dynamic Mike
- Recording/Battery Level Meter
- 2-Speed 2-Track Operation
- Beautiful Vinyl Carrying Case

ed to give you deluxe voice per-
ce at an economy price, this 2-speed,
monophonic recorder makes top-
recordings that last up to 128
s (both tracks) on one 600-ft. 3½"
tape. Compact and lightweight for
arrying—controls are conveniently
t-record wherever you are, with
in or out of carrying case. Powered
ype "C" flashlight batteries—last a
ime because of low current-drain.
2½" speaker has excellent tone. De-
eature follows deluxe feature: fast
d and rewind; capstan drive for
on speed-control; remote-control dy-
mike; provision for monitoring what
cord, as you record it; input for record-

ing from radio, TV or phono; output for external speaker; recording level/battery-condition indicator. Speeds: 3¾ and 1½ ips. Response 150-7000 cps at 3¾ ips. High-impact plastic case, only 3¾x8½x6½". Remote control mike; earphone, two patch cords (for taping from radios, etc.) reel of tape; splicing tape; take-up reel; tape-head polishing cloth; leather-grain vinyl carrying case; shoulder strap; less batteries below (uses 4). Operates from AC source with adaptor, below. From Japan. 6 lbs.

79 RU 937D. \$5 Monthly 89.95
79 RX 938D. 110-120 V., 60 cycle AC Adapter. For above. Wt., 1 lb. 12.95
55 J 861. Batteries. Pkg. of 2 for 32¢

LINCOLN LOWEST-COST SUBMINIATURE TAPE RECORDER

- Pushbutton Function Controls
- Remote-Control Crystal Mike
- Fits into an Overcoat Pocket

- Two-Track • Variable Speed
- Up to 20 Minutes Recording Time
- Tiny Size • With Accessories

ost tape recorder, so small that it
fits into an overcoat pocket, offering all
of new tape recording opportunities.
Pushbutton controls for stop, play,
fast forward, and start-stop control.
Monophonic. 4-transistor circuit. Variable
speed-control provides handy playback
equalization. Provides up to 20 min-
utes recording time (both tracks) on one
reel of tape. Battery-powered, and en-
gined for good voice quality, delivered
with a 2½" speaker. Controls are con-

veniently located—record wherever you
are with the recorder on the table or in your
pocket. Only 3¾x5½x2½". With carry-
ing case, microphone, accessory case,
reel of tape, batteries, take-up reel, and
earphone. From Japan. Wt., 6 lbs.

79 RU 940D. \$5 Monthly 29.95
80 R 035D. 2½" Reel of Tape. 3 oz. 89¢
80 R 036D. 2½" Take-Up Reel. 1 oz. 10¢
55 J 020. Extra AA Batteries. Uses 2. EA. 10¢
55 J 119. Extra 9-v. Battery. Uses 1. EA. 21¢

C 6-TRANSISTOR PORTABLE IN ATTACHE CASE

- Two Speeds: 1½ and 3¾ ips
- Up to 4 Hours of Recording Time
- 5" Reel-Capacity • Two-Tracks

- Fast-Forward and Rewind Control
- Recording-Level Indicator
- Capstan Drive • Remote-Control Mike

-track recorder provides up to 4-hour
tings from one 5" reel (both tracks).
uously variable speed, too—from
3¾ ips. Operates in any position—
anywhere, anytime. Records from
radio or TV. Mike switch remotely
start/stop functions. Also: fast-forward,
wind controls; record-level/battery-
level meter; capstan-drive for uniform
; external-speaker-earphone output.

A fine recorder for voice use. Response 250-
5,500 cps at 3¾ ips. 3½x8½x11½". In
impressive attache-type metal case with
handle. With mike, 5" reel of tape, take-up
reel, earphone, batteries. Operates from 4
batteries, or from AC with adaptor, below.
From Japan. Shpg. wt., 12 lbs.

79 RC 907D. \$5 Monthly 79.88
79 RC 908D. 110 VAC Adapter. 1 lb. 12.95
55 J 867. Pkg. of 4 Batteries. PER PKG. 52¢

D 4-TRACK PORTABLE STEREOPHONIC RECORDER

- Records and Plays 4-Track Stereo and Monophonic Tapes
- Two Detachable Wing Speakers
- Convenient Digital Footage Counter

- Two Record-Level Indicators
- Operates Horizontally or Vertically
- Record Interlock • Pause Lever
- Concentric Volume and Tone Controls

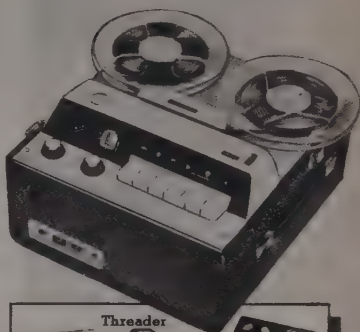
from Allied—high quality at lowest
in a 2-speed portable stereo recorder
pushbutton speed selector. Records
plays 4-track stereo and monophonic
at 7½ and 3¾ ips. Two wide-
6x4" speakers in detachable baffles
designed to ensure maximum channel
separation. Reproduce music in exciting
stereo or monophonic sound. You record
wherever you desire—recorder operates in
horizontal or vertical positions. Records
easily from mikes, radio, TV or phono,
and plays back. Features: digital footage
counter to help in editing and cuing; two

record-level indicators for "professional"
recording; fast-forward; tone controls for
tonal adjustments to suit your taste; instant
stop; safety lock to prevent accidental
erasure. Frequency response: 60-12,000
cps at 7½ ips. 12¾x13½x10½". In hand-
some luggage-type case. With two dynamic
microphones with stands, 7" reel of tape,
and take-up reel. For 110-120 volts, 60 cycle
AC. From Japan. 47 lbs.

79 RU 934D. \$9 Monthly 179.95
79 RU 477D. MX-10 Multiplex Filter. Plug-in
type. Shpg. wt., 2 lbs. 14.50

CONCORD

3-SPEED RECORDER PLUS FREE EDITING KIT



DELUXE MODEL 220 PLUS TAPE-EDITING KIT

\$129⁵⁰

- Pushbutton Controls
- Digital Counter
- 3-Speed Operation

A special big-value offer: Concord's
Model 220 two-track monophonic re-
corder, loaded with features, plus a
complete tape editing kit (regularly
\$9.95) free. Has pushbutton controls
for rewind, stop, fast-forward, play,
record and cue/edit modes. Also has
volume and tone controls, "magic eye"
recording indicator, digital footage
counter, and radio-phonograph input.
Response: 40-15,000 cps at 7½ ips.
7½x12x13". With dynamic mike, ear-
phone, 7" take-up reel, and patch
cord. Gray and white. For 110-120 v.,
60 cycle AC. From Japan.

Tape kit consists of: 3-7" reels of Knight
KN-12, 1½-mil "Mylar" tape; 150'
leader tape; tape splicer; 150' splicing
tape; 24-page booklet; tape threader;
head cleaner; 30 labels; 12 tape clips.
Shpg. wt., 29 lbs.

79 RU 494D. \$7 Monthly 129.50
AS-1 AUDIO SYNC. Synchronizes sound
with 8mm projector. Permits you to
make home sound movies. 3 lbs.
79 RX 915D. \$5 Monthly 29.95
FT-1 FOOT CONTROL. Wt., 2 lbs.
80 R 037D. 12.95

Buy a Tape Recorder Now by Using Allied's Credit Fund

Full-Range Stereo Portables and Consoles



Model 11
\$199.00
\$10 monthly

Features
Garrard
AT6
Changer

KLH PORTABLE ALL-TRANSISTOR STEREO PHONO

Deluxe in every detail. Boasts the famous Garrard AT6 Automatic Turntable—plays all four speeds, changes records gently and smoothly. In the precision tone arm, is Pickering's U38AT magnetic cartridge with diamond stylus. 2-gram tracking pressure gives long, long needle and record-life. 12-transistor amplifier delivers $7\frac{1}{2}$ watts of continuous power on each channel. High-compliance speakers in tightly sealed enclosures give powerful bass—can be used up to 25 ft. apart for greater stereo effect. Separate bass and treble controls. Inputs for stereo tuner or tape recorder. $7\frac{1}{2} \times 24 \times 14$ " gray fiberglass cabinet. Speaker cabinets, $14 \times 24 \times 7$ ". Aluminum trim. For 110-120 v., 60 cycle AC. Shpg. wt., 37 lbs. Shipped express.
D24 RZ 516D. \$10 Monthly..... 199.00



4 Speakers
\$79.95
\$5 monthly



ECONOMY STEREO PHONO WITH AM RADIO

Get natural, full-dimension stereo sound from stereo records, and enriched AM broadcast reception from this carefully-engineered, low-cost console. Employs 4 speakers (two $6\frac{1}{2} \times 4$ " and two 4×4 ") Has jacks for connecting external remote speakers. Controls include: wide-range tone; volume; AM tuning (550-1650 kc); and selector switch. 4-speed automatic intermix changer with dual sapphire needles has automatic shut-off after last record plays. Big slide-rule dial. Walnut or mahogany—specify. 6 tubes plus selenium rectifier. With legs, $28\frac{5}{8} \times 23 \times 14\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. From Japan. Shpg. wt., 50 lbs. Shipped Express from New York City or Los Angeles, whichever is nearer.
D24 RZ 596C-D. No C.O.D. Orders. \$5 Monthly..... 79.95

UNIQUE WALL OR FLOOR-MOUNTING CONSOLE WITH FM STEREO, FM-AM and STEREO PHONO

- Sensitive Radio Plays FM Stereo Plus Monophonic FM and AM
- Extra-Gentle Floating-Head Cartridge Protects Your Records
- Both Enclosures have 10" Bass and 4" Treble Speakers

Distinctively styled in oiled walnut to grace the decor of most a room, contemporary or traditional. Unique installation flexibility—too—mounts on wall, or rests on floor (4 matching legs included). Acoustically engineered with quality high-fidelity components. Both enclosures have 10" and 4" speakers.

Record changer plays stereo or monophonic records of all 4 speeds: 16 $\frac{3}{4}$, 33 $\frac{1}{3}$, 45, and 78 rpm. Has turnover ceramic cartridge with diamond and sapphire needles. Intermixes all size records of the same speed—shuts-off automatically after last record is played. Automatic 45-rpm spindle included. Phono swings conveniently into cabinet when not in use.

Radio receives FM and AM monophonic broadcasts plus brilliant stereo—you'll thrill to the amazing realism. Controls include: bass, treble; loudness; AFC for drift-free FM; FM stereo separate balance; function; tuning; separate On-Off—no need to re-set loudness each time set is turned on. 11 tubes plus rectifier. $22\frac{1}{2} \times 57 \times 12\frac{1}{2}$ " high with legs. U.L. Listed. For 110-120 v., 60 cycle AC. 102 lbs. Shipped Express from Rochester, Minn.

D24 RZ 599D. No C.O.D. Orders. \$13 Monthly..... 249.95

Includes Matching Legs for Floor or Console Use



Decorator-Styled in Oiled Walnut

BEAUTIFULLY STYLED 6-SPEAKER CONSOLE WITH FM STEREO, FM-AM and STEREO PHONO

Handsome furniture design, brilliant high-fidelity reproduction. Enjoy breathtaking FM stereo programs as well as monophonic FM and AM. Powerful circuit has 13 tubes. Full array of controls including stereo balance. Precision vernier slide-rule tuning. Both enclosures have 8" woofer, 5" mid-range, and 4" tweeter. 4-speed automatic record changer plays both stereo and monophonic records. Intermixes 10" and 12" records of same speed—shuts-off after last record is played. Turnover stereo cartridge with diamond and sapphire needles. Remote-speaker jacks. $28\frac{1}{2} \times 38 \times 17$ ". Oiled walnut. For 110-120 v., 60 cycle AC. Shpg. wt., 83 lbs. Shipped Express from New York City or Los Angeles, whichever is nearer.

D24 RZ 592D. No C.O.D. Orders. \$9 Monthly..... 179.95

6-SPEAKER FM-STEREO/FM-AM/STEREO PHONO

Lift-top console gives you FM-AM and FM-stereo reception (p. 10). Automatic 4-speed record changer for stereo or mono records. Sensitive 14-tube chassis. With balance and tone controls. Changer intermixes any size records of the same speed; has diamond and sapphire needles; automatic shut-off. Cabinet has two 8" round, and four $2\frac{1}{2} \times 5$ " speakers. Remote-speaker jacks. Record-storage compartment. Walnut or mahogany—specify. Black legs with brass ferrules. $30\frac{1}{2} \times 38\frac{1}{2} \times 15\frac{3}{4}$ ". From Japan. For 110-120 v., 60 cycle AC. Shpg. wt., 83 lbs. Shipped Express from New York City or Los Angeles, whichever is nearer.

D24 RZ 591C-D. No C.O.D. Orders. \$9 Monthly..... 169.95

4-SPEAKER FM-STEREO/FM-AM/STEREO PHONO

Room-filling sound from two $6\frac{1}{2} \times 3$ " and two 4" speakers. Cabinet built-in sound deflectors to give you just the acoustic effect desired. 4-speed, automatic intermix changer with dual sapphire needles. Automatic shut-off after last record. 13-tube chassis for high sensitive reception on FM, AM, and FM-stereo. Balance and tone controls; remote speaker jacks. Lift-top cabinet handsomely finished in walnut or rich mahogany—specify choice. $28\frac{1}{2} \times 23\frac{1}{2} \times 14$ ". For 110-120 v., 60 cycle AC. From Japan. 60 lbs. Shipped Express from New York City or Los Angeles, whichever is nearer.

D24 RZ 590C-D. No C.O.D. Orders. \$7 Monthly..... 134.95

D24 RZ 589C-D. As above, less FM-Stereo. Wt., 54 lbs. 114.95

Our Best
FM-Stereo,
FM-AM Radio
with Stereo Phono

\$249⁹⁵

\$13 monthly

Features New
FLOATING-HEAD
Cartridge



\$179⁹⁵

\$9
monthly



FM-Stereo, FM-AM Radio, Stereo Phono

**Stereo Consoles . . .
Magnificent Sound,
Distinctive Styles**



\$169⁹⁵

\$9 monthly

FM-Stereo, FM-AM Radio
with Stereo Phonograph



\$134⁹⁵

\$7 monthly

FM-Stereo, FM-AM Radio, Stereo Phono

**Tops in Beauty
and Economy—
Thrilling Sound!**



\$139⁹⁵

less legs
\$7 monthly

NEW
"TILT-DOWN"
10 TRANSISTOR
STEREO PHONO

A
"Floating Head"
Cartridge



\$169⁹⁵

less legs
\$9 monthly

"Floating Head"
Cartridge



\$109⁹⁵

less legs
\$6 monthly



Speakers Detach
For Best
Spread

Portable
Triple-Source
Stereo Phono

Stereo Phono with Stereo
Multiplex FM-AM Radio



NEW!

"TILT-DOWN" STEREO PHONO, FM-AM RADIO

- FM-AM Radio with Multiplex Jack
- "Tilt-Down" Automatic Changer
- Turnover Stereo Cartridge

\$149⁹⁵

less legs
\$8 monthly



D

Newest Stereo Phonos and Radio-Phonos— Place Them Anywhere!

A ALL-TRANSISTOR STEREO PHONO

Reap all the benefits of all transistor operation in a portable stereo phono: true, powerful sound, instant warmup, lightweight compactness, no microphonics and hum. 10 transistor stereo amplifier and two remote speaker enclosures—each with 8" bass speaker and 3" treble speaker reproduce every note that the ear can hear. Enclosures are equipped with 12' cables for up to 24-ft. stereo spread. 4-speed changer features easily accessible "tilt-down" base. Mixes all size records of same speed; shuts off after last record plays. "Floating-head" cartridge preserves your records—has diamond needle for LP's, sapphire for 78's. Walnut grained vinyl cabinet with silver trim. Size, closed, 22½x12½x14½". With 45-rpm spindle. Less legs, below. U.L. Listed. For 110-120 v., 60 cycle AC. 45 lbs. Shipped express only.

24 RU 500-D. \$7 Monthly.....139.95

24 RX 501-D. Satin Chrome Legs for Above. 14" long. Convert unit to consolette. Shpg. wt., 8 lbs.....6.95

B STEREO PHONO, STEREO FM, AM RADIO

Enjoy splendid stereo phono, stereo multiplex FM and FM-AM radio reception at Allied's low price! Remote speakers with 8" bass speakers and 4" treble speakers assure vivid tone; produce wide-range sound. Each remote has a 12' cable for adjustable stereo spread. Automatic record changer, featuring the revolutionary "floating-head" cartridge, plays all 4 speeds; mixes all size records of same speed; shuts off after last record has played. "Floating-head" preserves records—has diamond needle for LP's, sapphire for 78's. Radio provides thrilling reception of stereo broadcasts as well as conventional FM and AM programs. Elegant cabinet styled in mid-night and capri grays. 10½x22½x25½". With 45-rpm spindle. Less legs, below. U.L. Listed. For 110-120 v., 60 cycle AC. 63 lbs. Shipped express only.

24 RU 513-D. \$9 Monthly.....169.95

24 RX 514-D. Satin Chrome Legs. For phono-radio combination above. Length 16". Shpg. wt., 8 lbs.....6.95

C MULTI-CHANNEL STEREO PHONO

A deluxe performing triple source stereo phono, featuring record-pampering "floating-head" cartridge and a powerful dual-channel amplifier. 8" center-channel bass speaker in main cabinet delivers bass tones from each channel of your record. Each removable enclosure houses a 6" speaker with 1¾" whizzer cone for mid-range and high frequencies, and has 12' of cable for adjustable stereo spread—up to 24 feet. Automatic changer with heavy-duty motor plays all four record speeds; mixes all size records of one speed. Has "floating-head" turnover cartridge with diamond needle for LP's, sapphire for 78's. Smoke gray and silver tweed leatherette cabinets. Main unit, 9¾x25x19¾"; remote units, 9¾x14x4½". With 45-rpm spindle. Less legs, below. For 110-120 v., 60 cycle AC. U.L. Listed. 48 lbs. Shipped express only.

24 RU 507-D. \$6 Monthly.....109.95

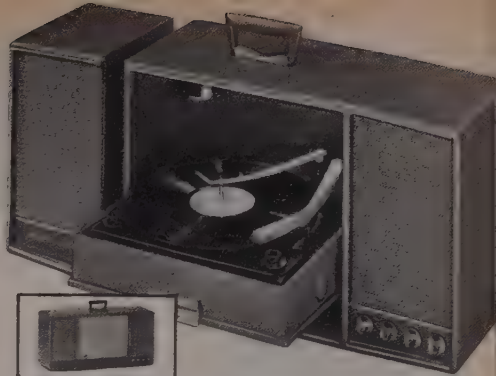
24 RX 514-D. Satin Chrome Legs for Above. 16" long. Convert unit to consolette. Shpg. wt., 8 lbs.....6.95

D STEREO PHONO WITH FM-AM RADIO

Hours of pleasure are yours with this handsome stereo phono and FM-AM radio combination. Features "tilt-down" design for record-changing convenience. 8" bass speaker and 4" treble speaker in each remote reproduce every tone in hearing range. Radio section has AFC, multiplex jack and FM stereo selector for multiplex adapter. 4-speed changer mixes all size records of same speed; shuts off after last record has played. Turnover stereo cartridge has diamond needle for LP's, sapphire for 78's. Walnut grained vinyl cabinet with silver trim. 14¾x25x13¾". With 45-rpm spindle. Less legs, below. U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 48 lbs. Shipped express only.

24 RU 502-D. \$8 Monthly.....149.95

24 RX 501-D. Satin Chrome Legs. For radio-phono combination above. Length, 14". Shpg. wt., 8 lbs.....6.95



NEW AUTOMATIC STEREO PHONOGRAPH FEATURING "TILT-DOWN" CHANGER

\$79.95

\$5 monthly

- Up to 12-ft Stereo Spread
- 4 Speakers for True Stereo Sound
- Plus 2 Whizzer Cones

This 4-speed automatic stereo phono features the latest concept in phono design—"tilt-down" record changer. Portable, may be taken from room to room. Dual-channel amplifier teams up with two 5¼" bass speakers with 1½" whizzer cones and two treble speakers to give you full-range stereo reproduction. One bass treble pair in the main cabinet, the other pair in removable speaker enclosure. Remote has 12' cable. Heavy duty motor and positive drive. Automatic shut-off. Turnover stereo cartridge has diamond needle for LP's, sapphire for 78's. Gray cabinet with silver trim, 14½x29¾x8¾". With 45-rpm adapter. U.L. Listed. For 110-125 v., 60 cycle AC. 42 lbs. Shipped express only.

24 RU 526-D. \$5 Monthly.....79.95



NEW ECONOMY "TILT-DOWN" MODEL AUTOMATIC STEREO PHONOGRAPH

\$59.95

\$5 monthly

- Compact, Portable—Easy to Store
- Convenient "Tilt-Down" Changer
- Remote with 10-ft. Cable

A new, economical stereo phono with many of the features that you would normally expect to find in more expensive models. Revolutionary "tilt-down" design of changer helps you to solve storage problems without sacrificing easy access to turntable, and serves as a shock absorber for added record protection. Has two full-range 4" speakers—one in the main cabinet, one in the remote speaker enclosure—for fine stereo sound. Remote has 10' cable for adjustment to desired stereo spread. Changer plays all 4 speeds; changes all size records of same speed; shuts off after last record has played. Pickup arm has turnover stereo cartridge with dual sapphire needles for LP's and 78's. Tastefully styled—muted apple green cabinet with handsome silver trim. Size, closed, 14½x23x8¼". U.L. Listed. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 37 lbs. Shipped express only.

24 RU 503-D. \$5 Monthly.....59.95

Take These Transistor Portables Anywhere You Go



New
Low Price

\$13⁹⁵

Was \$17.50
in last year's
catalog

8-TRANSISTOR POCKET-SIZE AM PORTABLE

With Leather
Carrying Case,
Earphone and
Battery!

LINCOLN 8-TRANSISTOR POCKET RADIO

Our lowest price ever on this deluxe pocket portable. Thousands were sold in last year's catalog at \$17.50—yours now at a surprisingly low \$13.95. Lightweight and compact to fit easily in pocket or purse—take it with you wherever you go. Brings in AM broadcasts with surprising strength and clarity. 2½" speaker produces music quality you'd expect only from larger and higher priced radios. "Full vision" slide rule dial has large numbers for simplified precision tuning. On-Off/volume and tuning controls are accurate, fast-operating thumbwheel-type. Radio is supplied complete with genuine leather carrying case; earphone for private listening, and 9-volt battery. Pocket-size, only 4¼x2½x1". From Japan. Shpg. wt. 12 oz.

24 SC 001D. **\$5 Monthly**..... **13.95**

55 J 147. Extra Battery. Shpg. wt., 6 oz. Pkg. of 3 for 59¢

NEW!



\$5 monthly
\$18⁹⁵

In Custom
Leather Case

10-TRANSISTOR PORTABLE WITH DUO-FI SPEAKER

Handsomely styled in a custom saddle-stitched leather case. AM portable features new Duo-Fi 3" speaker—combines a bass and a treble speaker for wide tonal ranges. Advanced-design circuit uses 10 transistors, 1 thermistor and 1 diode. Automatic Gain Control prevents directional signal fadeout, while Automatic Volume Control eliminates blasting. Double push-pull output stage produces more power, gives truer, cleaner sound. Direct-drive tuning assures accurate station selection. 4¾x7¼x2½". Complete with earphone and batteries. Shpg. wt., 1¾ lbs.

24 SC 055D. **\$5 Monthly**..... **18.95**

55 J 870. Extra Batteries. Uses 4. Wt., 4 oz. Pkg. of 2 for 20¢

A KN-2400 FM-AM-SW 4-BAND PORTABLE

The ultimate in portables! Transistorized, tunes everything—FM, AM and 2 Shortwave bands (2.4-6.3 and 6.2-16 mc). Perfect as a portable; a car radio; a cordless table model or a tuner. Features: pushbutton band-selectors; tuning/battery-condition meter; separate bass and treble controls; flywheel tuning; and more. Felt-padded mounting bracket (optional) converts KN-2400 to car radio in less than 5 seconds! Folds up, out of the way when radio is slipped out. Has 9 transistors, 3 diodes. "D" batteries provide up to 300 hours of operation under average conditions. Oversize 5x7" speaker. Twin telescoping whip antennas; jack for std. auto antenna; external speaker jack; hi-Z output jack for taping. Less batteries. 8½x12¾x4¼". From Denmark. Shpg. wt., 11 lbs. Shipped Express.

24 SU 229D. **\$5 Monthly**..... **97.50**

55 J 867. Extra Batteries. Uses 6. Wt., 8 oz. Pkg. of 4 for 52¢

24 SX 230. Universal Mounting Bracket. Wt., 3 lbs. 9.95

B LINCOLN 14-TRANSISTOR FM-AM-SW PORTABLE

Loaded with features—yours at a moderate price! Tunes FM, AM and Shortwave (4-12 mc)—hear anything you want, anywhere you go. Exciting new design features twin slide-rule dials for equal ease of operation in either standing or horizontal position. It's as easy to operate on a table indoors as it is at the beach, or the ballgame. Highly sensitive circuit uses 14 transistors, 6 diodes, 2 thermistors. Controls include: tone, volume, tuning, and band-selector. Telescoping antenna rotates 360° at any angle up to 90° off vertical position—helps to bring in those distant stations. 4½" speaker. Jack for external antenna. Less batteries. 10¼x7x3½". From Japan. Shpg. wt., 6 lbs. Shipped Express.

24 SC 056D. **\$5 Monthly**..... **59.95**

55 J 867. Batteries. Uses 4. Wt., 8 oz. Pkg. of 4 for 52¢

C LINCOLN 12-TRANSISTOR 4-BAND PORTABLE

Brings in longwave (140-400 kc), shortwave in 2 bands (2.5-7 and 7-17 mc) and the regular AM broadcast band (540-1600 kc). Similar in external design and all-around craftsmanship to 14-transistor model, above. Features twin slide-rule dials and a set of four controls. Advanced circuitry employs 12 transistors, 6 diodes and 1 thermistor. Has 4½" speaker; telescoping whip antenna; and a jack for external antenna. Less batteries. 10¼x7x3½". From Japan. Shpg. wt., 6 lbs.

24 SC 057D. **\$5 Monthly**..... **44.95**

55 J 867. Batteries. Uses 4. Wt., 8 oz. Pkg. of 4 for 52¢

D 10-TRANSISTOR AM PORTABLE

Improved version of last year's 9-transistor model. Now boasts 10 transistors for extra-powerful, more stable reception. Powerful circuit also has 1 thermistor and 1 diode. AGC stage reduces fadeout due to sudden weakening of signal. Has positive, direct-drive tuning; AVC. 2¾" speaker. With earphone, batteries, leather case. 3½x6½x1½". From Japan. 2 lbs.

24 SC 047D. **\$5 Monthly**..... **19.95**

55 J 870. Extra Batteries. Uses 4. Wt., 4 oz. Pkg. of 2 for 20¢

E 10-TRANSISTOR 3-BAND PORTABLE

Beautifully styled, quality-built radio. Tunes longwave (140-400 kc), shortwave (4-12 mc) and the regular AM broadcast band (540-1600 kc). Hear weather, planes, Hams and more. Thumbwheels control tuning, tone, bandswitching and volume. Sensitive circuit also has 1 thermistor and 1 diode. 3" speaker gives excellent sound. Ferrite antenna for AM, telescoping whip for LW and SW. With earphone, leather case and batteries. From Japan. 1¾ lbs.

24 SC 052D. **\$5 Monthly**..... **29.95**

55 J 870. Extra Batteries. Uses 4. Wt., 8 oz. Pkg. of 2 for 20¢

F SUB-COMPACT 9-TRANSISTOR FM-AM PORTABLE

Imagine—an FM-AM radio small enough to fit in your pocket. Only 6x3½x1½", it goes with you anywhere. 2½" speaker produces sound that compares with larger radios. Latest-design circuitry uses 9 transistors, 4 diodes and 2 thermistors for superior reception. Has built-in AM antenna, telescoping whip for FM. With earphone, leather case and batteries. From Japan. 2 lbs.

24 SC 023D. **\$5 Monthly**..... **49.95**

55 J 870. Extra Batteries. Uses 4. Wt., 4 oz. Pkg. of 2 for 20¢

A KNIGHT FM-AM-SW RADIO

All-Transistor

KN-2400

\$97⁵⁰

Best All-Around
Portable/Car Radio
Money Can Buy!

\$5 monthly



... or at the Beach

... the KN-2400 is
"at home" anywhere!

W!

transistor

\$9⁹⁵

monthly



NEW!

12-Transistor

\$44⁹⁵

\$5 monthly

B
LINCOLN
FM-AM-SW Portable

C
LINCOLN
4-Band Portable

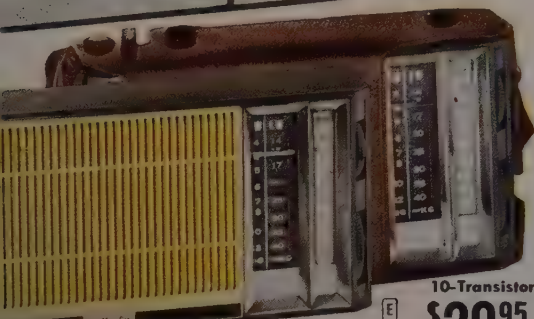


D
Now
with
AGC

10-Transistor

\$19⁹⁵

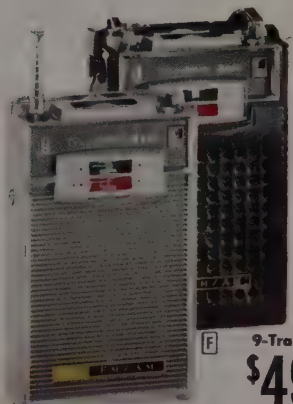
\$5 monthly



E
10-Transistor
\$29⁹⁵

\$5 monthly

**POPULARLY PRICED
Transistor Radios
FOR EVERYONE**



9-Transistor

\$49⁹⁵

\$5 monthly
ALLIED 113

F
Sub-Compact FM-AM

3-Band AM Portable



ALLIED Cartridge

SPECIAL 1c SALE!

PICK THE CARTRIDGE YOU WANT SAVE! For one cent extra you get your choice of any one of 3 nationally known top-quality cartridges illustrated at right: The Empire 880, Shure M3D, or Pickering U38AT.



Empire 880
Regularly \$17.95



Shure M3D
Regularly \$15.75



Pickering U38AT
Regularly \$16.75



TYPE A AUTOMATIC TURNTABLE

- 6-lb. Turntable, Weighted Arm with S Pressure Gauge
- Pusher-Type Mechanism for Record Protection
- Special Bonus Deals: Your Choice of Any 3 Famous Cartridges With Changer—Bonus Deal with Base.

Type A
Only

\$79⁵⁰

Type A with
Cartridge

\$79⁵¹

Type A with B
and Cartridge

\$83⁰⁰



AT-6 AUTOMATIC TURNTABLE

- Combines Turntable Performance with Record Changer Convenience
- Counter-Balanced Arm for Accurate Tracking
- Special Bonus Deals: Your Choice of Any 3 Famous Cartridges With Changer—Bonus Deal with Base

Type AT6
Only

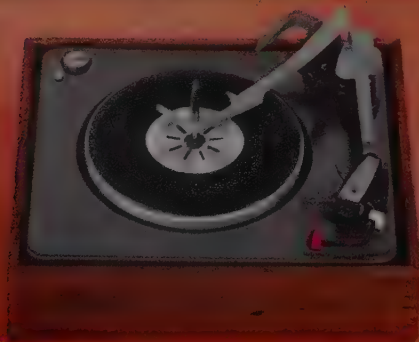
\$54⁵⁰

Type AT6 with
Cartridge

\$54⁵¹

Type AT6 with
and Cartridge

\$58⁰⁰



AUTOSLIM/P LOW-COST CHANGER

- Intermixes All Records of Same Speed
- Separate Manual and Automatic Controls
- Special Bonus Deals: Your Choice of Any 3 Famous Cartridges With Changer—Bonus Deal with Base

Autoslim/P
Changer Only

\$39⁵⁰

Autoslim/P
with Cartridge

\$39⁵¹

Autoslim/P
Base and Cartridge

\$43⁰⁰

us Deals with Garrard Changers

GARRARD "A," AT6 AND AUTOSLIM/P PLUS YOUR CHOICE OF CARTRIDGE FOR ONLY ONE PENNY MORE!

A WITH WALNUT BASE AND CARTRIDGE
 World-famous, deluxe automatic turntable that gives you
 onal turntable accuracy and 4-speed changer conven-
 Dynamically balanced 6-lb. platter rotates with super-
 y regardless of load or voltage changes. Motor is
 y balanced. Pusher-type mechanism for record pro-
 cision arm counterweighted for precise tracking. Built-in
 measure gauge. Rubber pad damps noise and vibration.
 ly designed mount permits quick, easy installation with-
 ls. Size, 16x13¼". Requires 2¾" below and 6" above
 ng board. With walnut base and your choice of any one
 top-quality cartridges: Empire 880, Shure M3D, or
 ng U38AT. Less 45-rpm spindle (see bottom right, for
 listings). For operation from 110-130 volts, 60 cycle AC.
 Cartridge. Shpg. wt. 26 lbs.

66-3. Type "A," Cartridge and Base.....**83.00**

WITH CARTRIDGE. Specify. Less base. 22 lbs.
 62-2. \$5 Monthly.....**79.51**

ONLY. Less base, cartridge. 22 lbs.
 52. \$5 Monthly.....**79.50**

AT6 WITH WALNUT BASE AND CARTRIDGE
 ed for dependable performance. Features over-sized
 that assures rotational accuracy. Smooth-operating
 mechanism handles your records gently and quietly.
 All four speeds: 16½, 33½, 45 and 78 rpm. With inter-
 able spindles; long spindle for automatic playing, short
 for manual playing. Counter-balanced tubular arm
 with precision; counterweight is adjustable. Gram scale
 to arm permits selection of exact tracking pressure. 4-pole
 Size, 15½x13". Requires 2½" below motor board and
 right and rear of arm. With walnut base and your choice
 one of 3 top-flight cartridges: Empire 880, Shure M3D,
 ng U38AT. Less 45 rpm spindle (bottom right). For 110-
 130, 60 cycle AC. Specify Cartridge. 19 lbs.

67-3. AT6, Cartridge and Base.....**58.00**

AT6 WITH CARTRIDGE. Specify. Less base. 15 lbs.
 63-3. \$5 Monthly.....**54.51**

ONLY. Less base, cartridge. 15 lbs.
 53. \$5 Monthly.....**54.50**

AUTOSLIM/P WITH WALNUT BASE AND CARTRIDGE

is Garrard quality at a low price. Features 4-pole shaded
 with 4 accurate speeds: 16½, 33½, 45 and 78 rpm.
 nt center-type changing mechanism is whisper-quiet,
 to records. Intermixes all records of same speed, regard-
 size. Turntable-type tubular pickup arm for precision
 ng. Has convenient plug-in head. Separate automatic and
 il controls; arm-clip locks arm securely in rest position;
 ve design. Size, 13½x12". Compact—only 6½" high—
 for limited space installations. Spring shock mounts provide
 ion from external vibration. Requires 4½" above, 2½"
 imotor board. With walnut base and your choice of car-
 Empire 880, Shure M3D, Pickering U38AT. Less 45-rpm
 (see listing at right). For 110-130 volts, 60 cycle AC.
 y Cartridge. Shpg. wt., 19 lbs.

64-3. Changer, Cartridge, and Base.....**43.00**

SLIM/P WITH CARTRIDGE. Specify. Less base. 12 lbs.
 64-2. \$5 Monthly.....**39.51**

SLIM/P CHANGER ONLY. Less base, cartridge. 12 lbs.
 54. \$5 Monthly.....**39.50**

BONUS DEALS WITH SHURE "GARD-A-MATIC" FLOATING CARTRIDGE



Type "A," Base and Shure M99/A



Model AT6, Base and Shure M99/AT6

MONEY-SAVING GARRARD CHANGER-SHURE "GARD-A-MATIC" CARTRIDGE COMBINATIONS

Best performance, at "Bonus Deal" prices. Shure cartridge retracts into mounting head when excessive pressure is applied by dropping arm, or sliding it across record. Protects stylus and record from damage.

TYPE A, WALNUT BASE AND SHURE M99/A. 26 lbs.

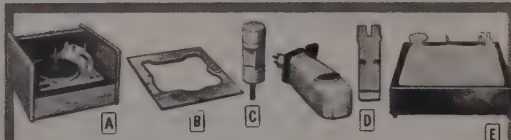
23 RX 556-3. \$5 Monthly.....**92.50**

23 RX 555-2. "A" and M99A. Less base. Shpg. wt., 22 lbs.....**89.50**

AT6, WALNUT BASE AND SHURE M99/AT6. 19 lbs.

23 RX 558-3. \$5 Monthly.....**68.00**

23 RX 557-2. AT6 and M99/AT6. Less base. Wt., 15 lbs.....**64.50**



ACCESSORIES FOR GARRARD CHANGERS

A WALNUT TABLE-TOP CHANGER CABINET. Made of stain and scuff-resistant formica, with walnut finish. Tam-
 bour cover. Size, 10¼x10x15¼". Shpg. wt., 18 lbs.

73 RX 064. TM-1. For "A" and 88 series. \$5 Monthly. **34.50**

73 RX 065. TM-2. For AT6, Autoslim/P and 210. **34.50**

73 RX 068. TM-3. For other changers—uncut.....**34.50**

B UNFINISHED MOUNTING BOARDS. Pre-cut and drilled
 for custom installation of Garrard changers. Shpg. wt.,
 2½ lbs.

73 RX 059. For Type "A" Changers.....**1.50**

73 RX 060. For AT6 and Autoslim/P.....**1.50**

C 45-RPM SPINDLE ADAPTERS. Av. wt., 10 oz.

73 R 063. For Type "A".....**3.80**

73 R 064. For AT6.....**3.80**

73 R 065. For Autoslim/P.....**3.80**

D PLUG-IN HEADS. Accept standard cartridges. 6 oz.

73 R 080. For Type "A".....**1.50**

73 R 081. For AT6, Autoslim/P.....**1.50**

E WALNUT WOOD BASES. Specially designed for Garrard
 changers. Handsome walnut finish. Wt., 5½ lbs.

73 RX 056. For Type "A".....**3.90**

73 RX 057. For AT6 and Autoslim/P.....**3.90**



\$199⁹⁵

Less Case

SPECIFICATIONS

Power Output: 100 watts IHFM, each channel 50 watts; 35 watts per channel continuous sine wave.

Frequency Response: $\pm 1/2$ db, 20-25,000 cps.

Harmonic Distortion: 1.0%.

Hum & Noise: —80 db, Tuner and Aux.; —65 db, Phono and Tape inputs.

Sensitivity: 0.1 v., Tuner and Aux; 2.5 mv. Tape; 2.0 mv, Phono inputs for full rated output power.

Outputs: 4, 8, 16 ohms-per-channel to speakers; hi-z center channel; hi-z to stereo recorder; lo-z to stereo headphones.

Controls: Front—Pushbutton Input Selector (Tape, Tuner, Phono, Aux); Bass; Treble; Balance; Loudness; Monitor; Mode; Stereo Reverse; Lo-Cut; Hi-Cut; Loudness On-Off; Phase; Power, Rear —Tuner and Aux. Level Set.

Custom Mounting: panel, $4\frac{3}{8} \times 14\frac{1}{4}$ "; cutout, $3\frac{5}{16} \times 13\frac{1}{8}$ ".

New 100-Watt Stereo Amplifier WITH ADVANCED SOLID-STATE CIRCUITRY

- All New—It's the Finest Transistorized Stereo High-Fidelity Amplifier Available Anywhere Today
- Incorporates the Latest Innovations in Solid State Circuitry
- Drives Even Low-Efficiency Speakers to Optimum Listening Level
- Abundant Reserve Power to Reproduce Symphonic Crescendos and Percussion Bursts with Spine-Tingling Reality

Knight engineering skill and the latest solid-state circuitry bring you an exciting milestone in the art of pure music reproduction. Uses 19 transistors and 8 diodes of the latest domestic types. Develops little heat—in any installation—efficient temperature control convectors and spacious chassis area let transistors operate at full efficiency at all times. And, you hear music instantly—no warm-up required. No output transformers means extra-powerful, supremely natural bass. Controls include handy push buttons to select the program source you desire. Also highlights: stereo headphone jack; 2-position record-monitor switch; 2 phase switches; pairs of stereo inputs (two with level controls); massive power transformer with line-voltage correction taps; circuit breaker; 2 convenience AC outlets. Brushed brass heavy-gauge control panel. Size, $4\frac{1}{2} \times 13\frac{3}{8} \times 12\frac{3}{4}$ ". In cases, below. For 117-127 v., 60 cycle AC. Shpg. wt., 23 lbs.

95 DU 037-D. \$10 Monthly.....

199.



Uses 27 Highest-Quality Domestic Semiconductors for Top Reliability



New Temperature Control Convectors Keep Power Transistors Stable



Rear Panel Has Stereo Level Controls for Tuner and Auxiliary



\$199⁹⁵

Less Case

SPECIFICATIONS

FM Sensitivity: 2.0 μ v for 30 db of quieting.

AM Sensitivity: 5 μ v for 20 db signal-to-noise ratio.

FM Frequency Response: ± 0.5 db, 20-25,000 cps.

FM Bandwidth: 300 kc.

FM Distortion: 0.5% at 100% modulation.

FM Stereo Separation: 30 db.

FM Hum and Noise: 58 db below 100% modulation.

Outputs: 2 low-impedance to stereo amplifier, 2 high-impedance for stereo taping. Can be used simultaneously.

Antennas: FM, 300-ohm input; AM, built-in loopstick.

Custom Mounting: panel size, $4\frac{3}{8} \times 14\frac{1}{4}$ "; cutout $3\frac{5}{16} \times 13\frac{1}{8}$ ".

New Stereo Multiplex FM-AM Tuner WITH ADVANCED SOLID-STATE CIRCUITRY

- Our Finest—A Triumph in Solid-State Wideband Tuner Design
- You Get Flawless Reception of Stereo and Conventional FM Plus
- Built-In Multiplex Circuitry Provides Optimum Channel Separation
- Stereo Indicator Light Flashes On to Indicate an FM "StereoCast"
- Automatic Frequency Control Absolutely Eliminates FM Drifting

The same thrilling advances that produced the KN-999 amplifier are included in the all-new KN-265. Result: incredibly realistic stereo FM reception plus standard FM and AM performance of striking clarity. Ultimate in convenience: a panel light flashes on to show when FM stations are transmitting stereo; precision signal-strength meter assures accurate tuning; flywheel-weighted tuning knob has velvet-smooth action. FM circuit has sensitive tuned RF stage; 4 IF/limiter stages; Local-Distant switch; AFC; DSR; wide-band ratio detector; 50 and 300-ohm antenna inputs. Section has sensitive tuned RF stage, 10-kc whistle filter, built-in antenna. With indoor FM antenna, 2—3-ft. audio cables. Uses 17 transistors, 8 diodes, 1 selenium rectifier. Panel matches KN-999, above. Less case, below. Size, $4\frac{1}{2} \times 13\frac{3}{8} \times 12$ ". For 110-127 v., 50-60 cycle AC. 14 lbs.

95 DU 017-D. \$10 Monthly.....

199.

95 DX 038-D. Dark Brown Metal Case. For KN-999 and KN-265. 4 lbs. 4

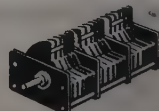
95 DX 023-D. Walnut Wood Case. For KN-999 and KN-265. 8 lbs. 12



Knight-Pioneered "Dynamic Sideband Regulation" Reduces FM Distortion



Flywheel-Weighted Tuning Control Has Comfortable, Velvet-Smooth Action



FM "Front End" Has Th Gang Tuned RF Stage Optimum Sensitivity

FOR THOSE WHO WANT

The Finest...

TRANSISTORIZED HI-FI
COMPONENTS

Products of Space-Age
Semiconductor Research



26 Highest-Quality
Semi-Conductors—
Transistors, 8 Diodes, 1 Rectifier
for Greatest Reliability



Front-Panel Switch Controls
Automatic Frequency Circuit-
Lock that Completely Elimina-
tes Annoying FM Drifting



Stereo Indicator Light Flashes
On to Show When You're
Tuned to a Station Transmit-
ting an FM "Stereocast"



Precision Signal Strength Me-
ter Assures You of Optimum
FM or AM Reception—Just
Tune for Maximum Reading



BROADER DIMENSIONS IN YOUR

World of Music

WITH NEW SOLID-STATE HI-FI



NEW All-Transistor 50-Watt Stereo Amplifier

Stunning Music Realism Across Entire Audio Spectrum—No Tubes or Output Transformers to Limit Frequency Response

Runs Extremely Cool—Transistors Generate Almost No Heat

Very Compact • Full Array of Controls • Tape Recording Outputs

Instant Music—No Waiting for Warm-up • Extra-Rugged Construction

Our moderately priced KN-950 50-watt stereo amplifier is a product of years-ahead engineering, offering all the advantages of solid-state transistor design. With it, you thrill to music of striking clarity and purity. Transistor-circuit benefits: instant operation—no filaments to warm up; no microphonics (mechanical noise); almost no heat, because of low power-consumption; extra-powerful and clean bass—output transformers have been eliminated; and space-saving compactness. Terminal-board wiring is almost immune to jolts or vibration. A full set of controls puts you in command of very stereo and monophonic source. For 4, 8 or 16-ohm speakers. Brushed brass and white die-cast panel. See matching KN-255 tuner. Only 2 $\frac{5}{8}$ x9 $\frac{3}{4}$ x4 $\frac{1}{2}$ deep. Less case, below. For 105-120 v., 60 cycle AC. Wt., 15 lbs

\$ DU 036D. \$6 Monthly. 119.95

\$ DX 022. Oiled-Walnut Wood Case. Wt. 8 lbs. 10.95

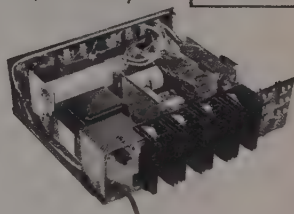
\$ DX 039. Metal Case. Dark brown. Wt., 5 lbs. 4.95

SPECIFICATIONS

Power Output: 50 watts IHFM; 25 watts IHFM music power per channel; 15 watts continuous sine-wave power per channel. **Frequency Response:** ± 1 db, 20 to 20,000 cps. **Harmonic Distortion:** 1.0%. **Hum and Noise:** -75 db on tuner and -60 db on magnetic phono. **Sensitivity:** Tuner, 0.25 volts; tape, 3.5 mv; phono, 4 mv; aux. 1, 1.0 volts; aux. 2, 0.5 volts. **Inputs:** 5 pairs—magnetic phono, tape head, tuner, aux. 1, and aux. 2. **Outputs:** 4-8-16 ohms; two high-impedance for tape recording; stereo headphone jack. **Controls:** selector switch, bass, treble, balance, volume-on-off, stereo/mono, lo cut, hi cut, and channel normal/reverse. **Custom Mounting:** cut out to size—3 $\frac{1}{8}$ high x 11 $\frac{1}{4}$; actual panel size, 3 $\frac{5}{16}$ x10 $\frac{7}{8}$.

less
case \$119⁹⁵

\$6 monthly



YEARS-AHEAD DESIGN

15 TRANSISTORS plus 2 diode power-rectifiers. No tubes! No output transformers!

MISSILE-AGE military-type terminal-board wiring—the ultimate in quality and reliability.

NO MECHANICAL NOISE since no tubes are used. Instant operation, too—no warm-up.

SUPERB SOUND . . . that must be heard to be believed. Stunning realism—music sounds "live."

FULLY TESTED in the lab and in the field—your assurance of years of reliable service.

NEW Transistor Solid-State Stereo FM/AM Tuner

Sensitive Distortion-Free Reception of FM Stereo, FM and AM

AFC Locks-in FM Broadcasts to Eliminate Station Drift

Stereo Indicator Light Positively Identifies Stereocasts

Tuning Meter Accurately Centers Stations "On Frequency"

High-Impedance Outputs for "Off-the-Air" Stereo Tape Recording

less
case \$149⁹⁵

\$8 monthly



All the latest design features and improvements in solid-state all-transistor circuitry are incorporated into our new, KN-255 stereo FM, and FM-AM tuner. Designed for outstanding stereo performance at a moderate price. Features stable multiplex circuit and wideband IF stages for maximum fidelity; automatic frequency control (AFC) that eliminates drift, precision tuning meter that locates center-channels of all stations with ease; flywheel-weighted tuning knob for velvety-smooth dialing; and a stereo tuning light that glows only when a stereocast is tuned in. All-transistor circuit runs cool and stable under all conditions. Brushed brass panel with touch of white perfectly matches KN-950 companion amplifier. Has two high impedance outputs for reserving stereo broadcasts on tape. 2 $\frac{5}{8}$ x9 $\frac{3}{4}$ x8". With two 36" audio output cables. Less wood or metal case, below. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

\$ DU 016D. \$8 Monthly. 149.95

\$ DX 022. Oiled-Walnut Wood Case. Wt., 8 lbs. 10.95

\$ DX 039. Metal Case. Dark Brown. Wt., 5 lbs. 4.95

SPECIFICATIONS

FM Sensitivity: 2 μ v for 20db quieting.

AM Sensitivity: 8 μ v for 20 db signal-to-noise ratio.

Distortion: 0.5% at 100% modulation.

Hum & Noise: 58 db below 100% mod.

IF Bandwidth: 290 kc.

Channel Separation: 30 db.

Outputs: 2 low-Z; 2 high-Z.

Antennas: FM, 300-ohm input; AM, built-in loopstick.

Semiconductors: 16 transistors, 8 diodes and 1 selenium rectifier.

Custom Mounting: Cut out to shelf 3 $\frac{1}{8}$ " high x 11 $\frac{1}{4}$ ". Panel 3 $\frac{5}{16}$ x10 $\frac{7}{8}$ ".



KNIGHT

STEREO HI-FI

Our Finest Hi-Fi Receiver For Deluxe Music Reproduction

BRINGS YOU BEAUTIFUL LISTENING FROM EVERY SOURCE



CHECK THESE OUTSTANDING FEATURES:



Front Panel Jack Accepts
Stereo Headphones

AC Outlet
for Record
Changer or
Recorder



Panel Light Flashes On to
Show When FM Stereocast
Is Being Received.



Bar-Type Tuning Indicator
Shows When You're Exactly
"On Station".



KN-360

All-In-One
60-Watt Receiver

- * Stereo Multiplex FM Tuner
- * Sensitive AM Tuner
- * Powerful 60-Watt Stereo Amplifier
- * Stereo Preamps for Tapes and Records
- * Complete Control Center

New Knight KN-360 60-Watt Stereo Receiver

AN ALL-IN-ONE STEREO MULTIPLEX FM-AM TUNER/AMPLIFIER

Less Case
\$249⁹⁵

\$13 monthly

- Tuner Section Receives Stereo Multiplex FM, Regular FM, Plus AM Broadcasts
- Amplifier Section Has Full Controls and Inputs for Phono and Tape
- 60-Watt IHFM Output Drives Any Speaker Systems to Full Listening Level
- Six-Position Input Selector Gives Fingertip Command of All Signal Sources
- Dual Concentric Bass and Treble Controls for Each Channel
- Stereo Headphone Jack on Front Panel Permits Private Listening

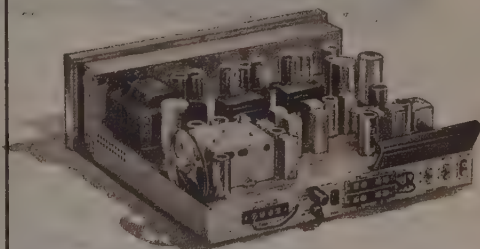
terfully engineered to satisfy the requirements of most critical audio listener, the new Knight KN-360 bines on a single chassis, individual FM and AM ng sections, stereo multiplex circuitry, dual pre- amplifiers for records and tapes, a full set of controls, a powerful 30 watt-per-channel stereo amplifier. ely add a record changer and/or tape deck and akers to have a complete stereo music system of xcelled quality.

sensitive FM tuner section features a fully tuned RF lifier. Wide band IF amplifier and ratio detector vide dual limiting for distortionless sound. AFC with ch eliminates FM drifting. A bar-type tuning in- tor closes to a hairline when you're "on-station." t-in multiplex circuit with noise filter provides full- lity reception of stereo FM with maximum channel aration; indicator lights when you're tuned to a .on Stereocasting. AM section has loop stick antenna 3 IF stages—plenty of power to pull in stations from

amplifier section utilizes DC on all tube filaments to inate hum. Has dual concentric clutch-type bass .treble controls for each channel—let you adjust skers individually or simultaneously. Also has: true dness control; rumble filter; balance control; tape nitor switch; tape head inputs; independent recorder uths; center-channel output; stereo headphone jack. loopstick and FM line-cord antennas. Size, 5 $\frac{1}{4}$ x $\frac{1}{2}$ x15". Less case, below. For 110-125 v., 60 cycle . Shpg. wt., 38 lbs.

DU 056-D. \$13 Monthly. **249.95**
DX 055. Brown Metal Case. 9 lbs. **12.95**
DX 057. Walnut Wood Case. 10 lbs. **23.95**

FIVE BIG REASONS WHY THE KN-360 IS A GREAT BUY



COMPLETE . . . on one chassis is a stereo FM tuner, a conventional FM tuner, an AM tuner, a stereo preamplifier with full controls, and a power-packed 60-watt stereo amplifier.

COMPACT . . . measures only 5 $\frac{1}{4}$ x15" $\frac{1}{2}$ x15"—saves space because it's "all-in-one." Fits on shelves or in an equipment cabinet.

FUNCTIONAL . . . Provides maximum flexibility. All controls are conveniently grouped on front panel for top operating ease.

ECONOMICAL . . . you get considerable savings over the cost of individual tuner, preamplifier and amplifier if purchased separately.

QUALITY . . . Knight engineering and rigid quality control guarantee top performance.

KN-360 SPECIFICATIONS

FM SECTION

IHFM Sensitivity: 2.5 microvolts for 20 db quieting.
IF Bandwidth: 300 kc.

AM SECTION

Sensitivity: 75 microvolts per meter for 10 db of signal-to-noise ratio.
Selectivity: 8 kc.

AMPLIFIER SECTION

IHFM Power Output: 60 watts; 30 watts-per-channel; continuous sine wave output power, 27 watts per channel.
Frequency Response: ± 1 db, 20-20,000 cps at full rated output power.
Harmonic Distortion: less than 0.6% at full rated output power.
Hum and Noise: -60 db at magnetic phono and tape head inputs; -75 db at auxiliary inputs and in tuner position.

AMPLIFIER SECTION (CONTINUED)

Channel Separation: 30 db or better.

Stereo Inputs: Tape Head, Magnetic Phono, Auxiliary.

Controls: Selector (Tape Head, Phono, Aux., FM, FM Stereo, AM); Mode (Mono Left, Stereo Norm, Stereo Rev., Mono Right); Volume; Balance; 2—Bass; 2—Treble; Lo-Filter; Hi-Stereo FM Filter; Loudness; Tape Monitor; Speaker-Phones Switch; AM-FM Tuning; AFC; Power Off-On.

Outputs: 4, 8 and 16 ohms-per-channel to speaker; left and right channel to tape recorder; hi-z center channel; low-z stereo output to headphones.

Tube Complement: 1—6GK5; 1—6BA6; 1—6BE6; 1—12AU7; 1—6BL8; 1—EM84; 2—12AT7; 3—6AU6; 4—7355; 5—12AX7; 8 crystal diodes; 6 silicon and 1 selenium rectifiers.

Power Requirements: 110-125 v., 60 cycle AC; 200 watts.



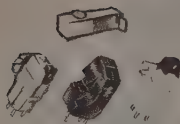
KNIGHT

STEREO HI-FI MUSIC SYSTEMS

60-Watt Music Systems Featuring

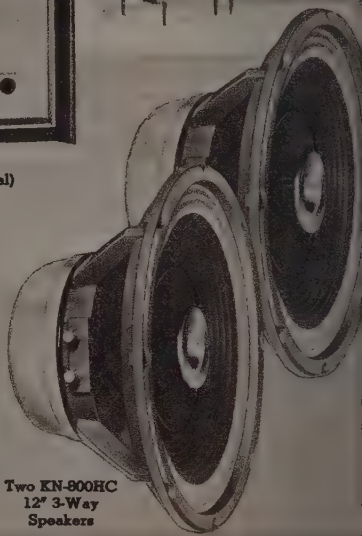


Knight KN-360
Stereo Receiver (case optional)



Choice of
Stereo Cartridge

Garrard Type
"A" and Base



Two KN-800HC
12" 3-Way
Speakers

DELUXE CUSTOM SYSTEM ABOVE

Save up to \$48.05 Off Our Catalog Prices!

\$389⁹⁵

- KN-360 Receives Stereo-FM/FM-AM
- Deluxe Changer Is Garrard's Best
- Speakers Deliver 35-15,000 cps

A team of all-star components chosen to deliver deeply satisfying music in exquisite stereo. Includes: **Knight KN-360 Stereo-FM/FM-AM Receiver**; **Garrard Type "A" Automatic Turntable with Base**; **Choice of Empire 880, Pickering U38AT, Shure M3D, or Shure M99A Stereo Cartridge**; **two Knight KN-800HC 12" 3-Way Speakers**. Plus connecting cable. The KN-360 Receiver combines stereo amplifier and stereo FM/AM tuner in one compact unit. Delivers tremendous power, and has controls for every monophonic and stereo source (see page 121). The Garrard Type "A" offers precision turntable performance and 4-speed changer convenience. Each speaker has a 12" woofer, mid-range cone, and compression-type tweeter—plus 2 crossovers for spectacular music realism (see page 177). Changer base in mahogany, limed oak or walnut—specify. Less receiver case, below. 88 lbs. Shipped express.

22 HF 977D. Specify cartridge. \$18 Monthly. **389.95**

CASES FOR KN-360 RECEIVER

- WALNUT WOOD CASE. 10 lbs.
- 95 DX 057D..... **23.95**
- METAL CASE. Brown. Wt. 9 lbs.
- 95 DX 055D..... **12.95**

A READY-TO-PLAY SYSTEM

Save up to \$48.25 Off Our Catalog Prices!

- Speaker Systems can be used on Wall, Shelf or Floor
- Components Are Ready to Plug-in and Play
- Cartridge Mounted in Head • All Cables Included

Perfectly balanced stereo system offering the unique pleasure of music in depth, with the startling clarity of a live performance. Includes: **Knight KN-360 Stereo FM/AM Receiver**; **Garrard Type "A" Automatic Turntable and Walnut Base**; **choice of Empire 880, Pickering U38AT, Shure M3D, or Shure M99A Stereo Cartridge**; **two KN-281 2-Way Speaker Systems in Oiled Walnut and cable**. KN-360 delivers 30-watts per channel (see page 121). Type "A" changes your records gently. KN-281 speaker systems each employ high-compliance woofer and 2 direct-radiator tweeters (see page 173). Critically tuned for powerful bass. Less receiver case, left. Shpg. wt., 125 lbs. Shipped express.

22 HF 978D. Specify cartridge. \$19 Monthly. **409.95**

B ALTERNATE SYSTEM. Save up to \$58.25. Same as (A), but with two Knight KN-2275 4-Way Speaker Systems (page 171) in place of KN-281's. Oiled walnut finish. Less receiver case, left. Wt., 145 lbs.

22 HF 979D. Specify Cartridge. \$20 Monthly. **459.95**

C ALTERNATE SYSTEM. Save up to \$58.25. Same as (A), but with two Knight KN-2300 3-Way Speaker Systems in place of KN-281's. See page 172. Oiled walnut finish. Less receiver case, left. 160 lbs.

22 HF 980D. Specify Cartridge. \$21 Monthly. **499.95**

N-360 Stereo FM/AM Receiver



KNIGHT

**STEREO HI-FI
MUSIC SYSTEMS**

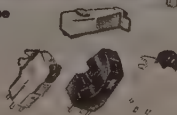


KN-360 Receiver (case optional)



Garrard Type "A" and Base

Choice of Stereo
Cartridge

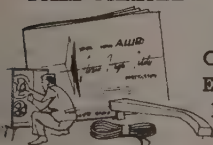


**SEAL OF COMPATIBILITY
MEANS MATCHED COMPONENTS**

Knight's seal of compatibility guarantees that components of each system are perfectly balanced to give the highest fidelity at lowest possible cost to you.



FREE ALLIED "EXTRAS"



**OFFERED WITH
EVERY STEREO
HI-FI SYSTEM**

Here's what you get free: all connecting cable; cartridge mounted in head; booklet on using your system to advantage.

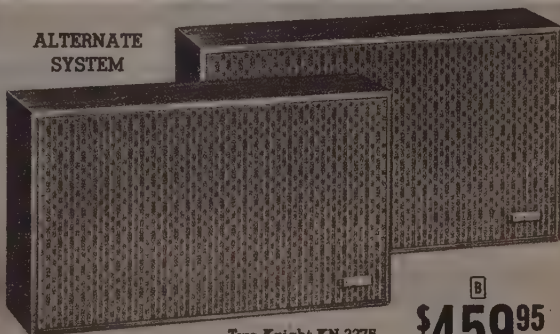
Knight Music Systems Give You the Most for Your Money



Two Knight KN-281
2-Way Speaker Systems

^A
\$409⁹⁵

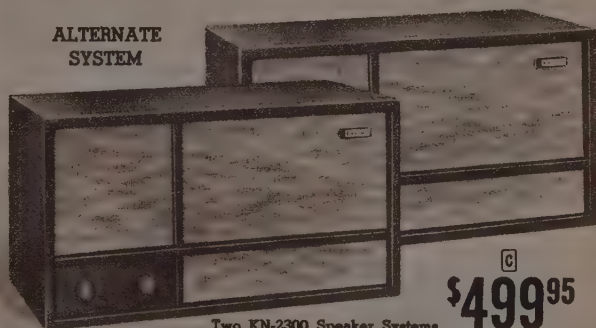
**ALTERNATE
SYSTEM**



Two Knight KN-2275
4-Way Speaker Systems

^B
\$459⁹⁵

**ALTERNATE
SYSTEM**



Two KN-2300 Speaker Systems

^C
\$499⁹⁵

ALLIED 123



STEREO HI-FI
MUSIC SYSTEMS



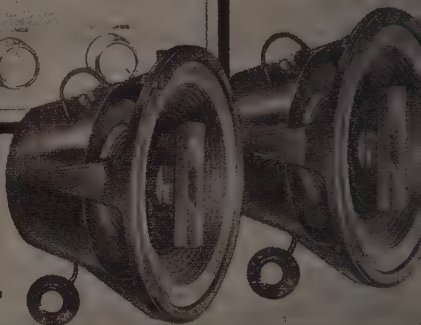
KNIGHT'S
SEAL OF
COMPATIBILITY

Your guarantee that all 8 deluxe components in the systems are perfectly matched to ensure the ultimate in stereo high-fidelity.



Choice of
Cartridge

Knight KN-999 100-Watt Stereo
Amplifier (case optional)



Two Knight
KN-612HC 12"
3-Way Speakers



Garrard Type "A" and Base

OPTIONAL: KNIGHT KN-265 MULTIPLEX FM-AM TUNER



Lends a new dimension to radio listening pleasure. You enjoy stereo FM, standard FM, and AM. See page 110.

\$369⁹⁵

less amplifier case
\$17 monthly

Custom 100-Watt Stereo Systems

SAVE UP TO \$78.10 OFF INDIVIDUAL CATALOG PRICES

- All-Transistor KN-999 Is Knight's Best, Most Powerful Stereo Amplifier
- Garrard Type "A" Combines Turntable Quality and Changer Convenience
- KN-612HC 12" Speakers Powerfully Cover Full Range of Audio Spectrum

Save up to \$58.15. Featuring the best of newest equipment, this system gives you music that "lives"—in stunning stereo... plus full installation flexibility. Includes: Knight KN-999 100-Watt All-Transistor Stereo Amplifier; Garrard Type "A" Automatic Turntable and Base; choice of Stereo Cartridge—Empire 880, Pickering U38AT, Shure M3D or Shure M99A; two Knight KN-612HC 12" 3-Way Speakers. Plus: cables, installation of cartridge, special system instruction booklet. Full orchestral crescendos and delicate solo-instrument passages are reproduced faithfully by the KN-999 (page

116) Type "A" has separate manual and automatic controls. KN-612HC speakers (page 176) deliver super powerful bass, and highs to the limits of the audio spectrum. Less amplifier case, below Changer base in mahogany, limed oak, or walnut—specify. Shpg. wt. 111 lbs. Shipped express.

22 HF 950D. Specify cartridge. 369.95
22 HF 951D. Save up to \$78.10. As above, plus KN-265 Tuner. Specify cartridge, finish. 128 lbs. \$49.95
95 DX 023. Walnut Case for KN-999 or KN-265. 8 lbs. 12.95
95 DX 038. Metal Case for KN-999 or KN-265. 5 lbs. 4.95

DANISH MODERN 3-PIECE FURNITURE GROUP

Consists of KN-1503 equipment cabinet, and 2 KN-1275A speaker enclosure (see page 203). Oiled walnut. 205 lbs. Shipped express.

23 DZ 513-3D. \$12 Monthly. 224.95



124 ALLIED

Music Systems Are Shipped Express



**STEREO HI-FI
MUSIC SYSTEMS**



KN-999 Amplifier (case optional)

Two Knight
KN-2275
Speaker
Systems

Choice of Cartridge

Garrard Type "A" and Base

ALTERNATE SYSTEM

the deluxe
system shown
above, but has
no Knight
KN-2300
speaker
Systems



OPTIONAL: KNIGHT KN-265 MULTIPLEX FM-AM TUNER

Matches the
Amplifier in
sound and in
appearance.
See page 116.



Deluxe 100-Watt Stereo Systems

SAVE UP TO \$83.10 OFF INDIVIDUAL CATALOG PRICES

- KN-999 Transistorized Stereo Amplifier Operates Instantly and Runs Cool
- Garrard Type "A" has Professional-Type Arm and 6-pound Turntable
- Choice of Two Deluxe High-Performance Knight Speaker Systems

Save up to \$68.15. Ready-to-play system bringing you the overwhelming splendor of music in magnificent stereophonic sound. Includes: Knight KN-999 100-Watt Transistorized Stereo Amplifier (page 116); Garrard Type "A" Automatic Turntable and Walnut Case (page 114); choice of stereo cartridge—Empire 880, Pickering U38AT, Shure M99A, or Shure M99A; two Knight KN-2275 4-Way Speaker Systems in Oiled Walnut Case (page 171); plus all connecting cable. Type "A" has 6-lb. turntable. Less amplifier case, facing page. Wt., 129 lbs. Shipped Express.

HF 952D. Specify Cartridge. \$18 Monthly.

399.95

HF 953D. Save up to \$78.10. As above, plus Knight KN-265 tuner. Specify cartridge. Wt., 146 lbs. \$25 Monthly.

589.95

INTERNATE SYSTEM. Save up to \$68.15. Same as phono system above, but KN-2300 (oiled walnut) 3-way speaker systems (page 172) in place of KN-2275's (p. 172). Wt., 146 lbs. Shipped express.

HF 954D. Specify Cartridge. \$19 Monthly.

439.95

HF 955D. Save up to \$83.10. As above, plus Knight KN-265 tuner. Specify Cartridge. Wt., 160 lbs. \$26 Monthly.

624.95

\$399⁹⁵

less amplifier case
\$18 monthly



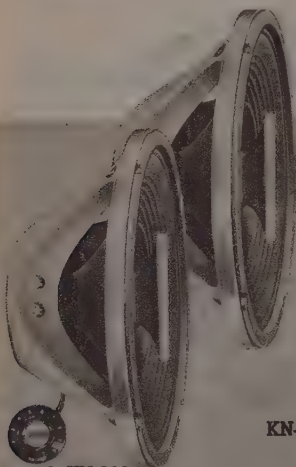
SYSTEM EXTRAS

With your Knight system, you get these Free extras: cartridge installed in plug-in head; speaker connecting cable; and Allied's own Music System Instruction Booklet.



**STEREO HI-FI
MUSIC SYSTEMS**

Superb Stereo Systems with



**2 KN-830
12" 3-Way
Speakers**

**Choice of
Cartridge**

KN-990 Changer



A **Phono System**
\$199⁹⁵
\$10
monthly



**Knight KN-950 All-Transistor Stereo
Amplifier (case optional)**



Optional Multiplex KN-255 Tuner
System with KN-255 Tuner \$339⁹⁵

A CUSTOM HOME MUSIC SYSTEM

Save up to \$51.75 off Regular Catalog Prices!

An excellent system for custom installation. Gives brilliant stereo music reproduction. Includes: Knight KN-950 50-Watt All-Transistor Stereo Amplifier; Knight KN-990 4-Speed Automatic Turntable; choice of Empire 880, Shure M3D or Pickering U38 Cartridge; two Knight KN-830 12" 3-Way Speakers. KN-950 is described on page 119. KN 990 combines changer convenience and turntable precision (see page 162). KN-830 speakers boast true 3-way design (see page 178). Less changer base and amplifier case. 58 lbs.

22 HF 956D. Specify cartridge. Shipped exp. 199.95

22 HF 957D. Save up to \$51.75. As above, but includes Knight KN-255 stereo FM/AM tuner (see page 119). 68 lbs. Specify cartridge. Shipped express. 339.95

B DELUXE HOME MUSIC SYSTEM

Save up to \$61.75 off Regular Catalog Prices!

Glorious, "live" stereo sound is yours with this ready-to-play system. Includes: Knight KN-950 50-Watt All-Transistor Stereo Amplifier; Knight KN-990 4-Speed Automatic Turntable with Walnut Base; choice of Empire 880, Shure M3D or Pickering U38AT Cartridge; two Knight KN-281 2-Way Speaker Systems in Oiled Walnut. KN-950 offers transistor circuitry advantages (see page 119). KN-990 handles records with precision (page 162). Response of KN-281 systems, 35-15,000 cps. (page 178). Less amp. case. 94 lbs. Shipped express.

22 HF 958D. Specify cartridge. 239.95

22 HF 959D. Save up to \$61.75. As above, but includes Knight KN-255 stereo FM-AM tuner (see page 119). 126 lbs. Specify cartridge. Shipped express. 379.95

C OUR FINEST 50-WATT ALL-TRANSISTOR STEREO PHONO SYSTEM

Save up to \$71.75 off Regular Prices of Components Purchased Separately!

Perfectly balanced system for capturing every musical note in breathless stereo realism. Includes: Knight KN-950 50-Watt All-Transistor Stereo Amplifier; KN-990 4-Speed Automatic Turntable with Walnut Base; choice of Empire 880, Shure M3D, or Pickering U38AT Cartridge; two Knight KN-2275 4-Way Speaker Systems in Oiled Walnut. KN-950 described on page 119. KN-990 features

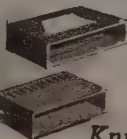
big 11" turntable (page 162). KN-2275 speaker system offer newest design features (page 171). Less amplifier case. Shpg. wt. 116 lbs.

22 HF 960D. Specify Cartridge. 289.95

22 HF 961D. Save up to \$71.75. As above, plus Knight KN-255 stereo FM-AM tuner (see page 119). 126 lbs. Specify cartridge. Shipped express. 429.95

FREE SYSTEM EXTRAS

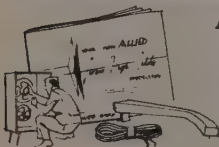
With each system you get: cartridge installed in head; hi-fi booklet; all connecting cable.



KN-950 and KN-255 CASES

95 DX 022D. Wood Case. Oiled walnut finish. Wt., 8 lbs. 10.95

95 DX 039D. Metal. Brown. 5 lbs. 4.95



126 ALLIED Write for a

Knight System of Your Own Choice

0-Watt All-Transistor Amplifier



STEREO SYSTEMS

COMPATIBLE SYSTEMS

Knight's seal of compatibility is your guarantee that these systems are selected by experts for perfect balance.

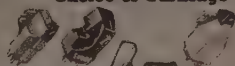


KN-950 Amplifier (case optional)



2 KN-281
2-Way
Speaker Systems

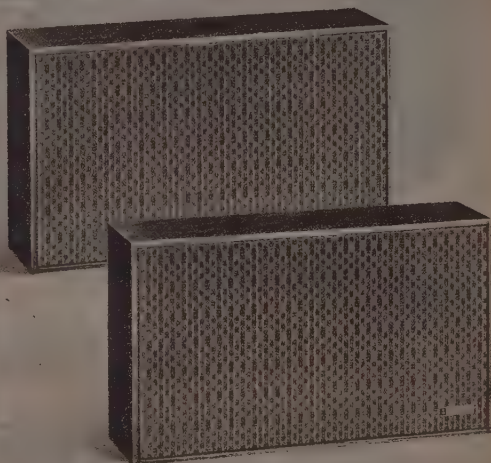
Choice of Cartridge



KN-990
and Base

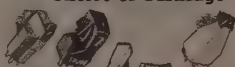
B Deluxe Phono System

\$239⁹⁵ \$12
monthly



2 KN-2275
3-Way
Speaker Systems

Choice of Cartridge



KN-990
and Base

C Our Finest 50-Watt System

\$289⁹⁵ \$15
monthly

WITH OPTIONAL TUNER
Above system with Knight
KN-255 Stereo Multiplex
FM-AM Tuner

\$379⁹⁵ \$18
monthly

less case



WITH OPTIONAL TUNER
Above system with Knight
KN-255 Stereo Multiplex
FM-AM Tuner

\$429⁹⁵ \$19
monthly

less case



KNIGHT

STEREO HI-FI AMPLIFIER

Enjoy True Concert-
Hall Presence In
Your Listening Room



KN
940

Top Value 44-Watt Stereo Amplifier

SPECIFICATIONS

IHFV Music Power Output: 44 watts,
22 watts per channel.

Continuous Sine Wave Power Output: 18 watts per channel.

Frequency Response: ± 1 db, 30-
18,000 cps at rated output power.

Hum and Noise: Tuner input, -72
db; Magnetic Phono Input: -88 db.

Harmonic Distortion: 1.5% at rated
output power.

Inputs: (5 pairs) Tape Head, Tuner,
Magnetic Phono, Auxiliary 1
(Ceramic Phono) and Auxiliary 2
(high-level tape recorder, etc.).

Outputs: 4, 8, 16 ohms-per-channel;
2 tape recorder outputs.

Tube Complement: five 12AX7A;
four 6BQ5, four silicon rectifiers.

\$79⁹⁵

Less Case

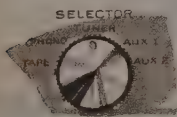
- Wide Array of Controls for Top Flexibility
- Low and Hi-Cut Filters Stop Rumble and Scratch
- Provides a Crisp, Clear Distortionless Response
- Two Tape Recorder Outputs Permit "From the Air"
Stereo Recordings—Includes Tape Head Inputs
- Has Front-Panel Jack for Stereo Headphones

Solid stereo sound and full flexibility highlight this outstanding amplifier. Big 44-watt output for full bass, clean midrange and sparkling treble—even with low-efficiency speakers. Five-position input switch provides instant selection of music sources. Lo and hi-cut filters stop rumble and scratch. High-Z recorder outputs let you make stereo tapes from tuner and records. Also: ganged bass and treble controls that simultaneously adjust tone of both speakers; stereo headphone jack and speaker-on/off switch for private listening; stereo-mono switch; AC outlet; silicon bridge rectifier power supply for good regulation. White front panel with brushed gold overlay. 13 $\frac{7}{16}$ x4 $\frac{1}{2}$ x11 $\frac{3}{8}$ ". Less cases, below. For 110-125 v. AC, 27 lbs.

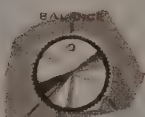
95 DU 035-D. \$5 Monthly..... **79.95**

95 DX 042. Brown Metal Case. Shpg. wt., 7 lbs..... **4.95**

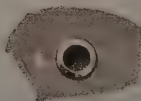
95 DX 021. Walnut Wood Case. Shpg. wt., 8 lbs..... **10.95**



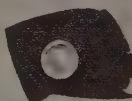
5-Position Selector Switch instantly chooses Tape Head, Tuner, Mag. Phono, or choice of two auxiliary inputs for full flexibility.



Balance Control adjusts channels for perfect stereo—you get excellent separation action no matter where speakers are placed.



Stereo Headphone Jack on front panel lets you listen to music in complete privacy without disturbing others. Accepts low-Z phones.



Separate Bass and Treble Controls simultaneously adjust tone of both channels to suit personal tastes and listening room acoustics.



Convenience AC Outlet on rear panel provides power for changer, tape recorder or tuner. Controlled by switch on amplifier.

**KNIGHT****STEREO HI-FI
TUNER**

Economy Stereo Multiplex FM-AM Tuner

**KN
245**

Out Lowest-Cost FM-AM Stereo Tuner—But Feature-Packed for Deluxe Performance
 • Receives Stereo and Mono FM, AM Broadcasts
 • Tuning Indicator Also Signals "Stereocasts"
 • Balanced Ratio Detector, 2 IFs, Limiter, AFC
 • Extra-Smooth Flywheel Tuning, Slide-Rule Dial

\$99⁹⁵
 Less Case

and new for '64, the KN-245 brings you really deluxe features at a pleasant low price. It's a perfectly matched, economical companion for the KN-940 amplifier. Equipped to receive every type of radio broadcast, it brings you high-fidelity stereo and conventional FM, as well as excellent AM. Among deluxe features is a magic eye that acts both as a stereo indicator and tuning indicator. Highly sensitive FM section has AFC for elimination of drift and a limiter circuit to block out static. Sensitive AM circuit has built-in ferrite-rod antenna to pull in distant stations. Edge lighted, easy-to-read slide-rule dial; extra-smooth flywheel tuning. Less case, below. 13 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ ". For 110-125 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

DU 015-D. \$5 Monthly. **99.95**
 DX 042. Brown Metal Case. Shpg. wt., 7 lbs. **4.95**
 DX 021. Walnut Wood Case. Shpg. wt., 8 lbs. **10.95**

SPECIFICATIONS

FM Section

FM Sensitivity: 2 microvolts for 20 db of quieting.
Frequency Response: ± 1 db, 20-20,000 cps.
IF Bandwidth: 280 kc.
Channel Separation: 30 db or better.
Harmonic Distortion: less than 1.0% at 100% modulation.
Hum and Noise: -55 db below 100% modulation.

AM Section

Sensitivity: 10 microvolts for 20 db signal-to-noise ratio.
IF Bandwidth: 10 kc at 6 db down on curve.
Frequency Response: 20 to 6000 cps.

Overall

Tube Complement: 3—12AT7, 3—6AU6, 1—6BE6, 1—12AX7A, 1—6FG6, 8 germanium diodes, silicon rectifier.

WHAT STEREO FM MEANS

Stereo FM means a new source of music enjoyment that offers wide response, excellent channel separation and really pure tonal quality. In most cities, FM stations are now "Stereocasting" dozens of hours every day.

Magic Eye Stereo and Tuning Indicator.—Tuning eye closes to indicate perfect tuning when "on" AM or FM station. When selector is set for FM-Stereo, "Magic Eye" closes only when tuned to a station that is broadcasting stereo.

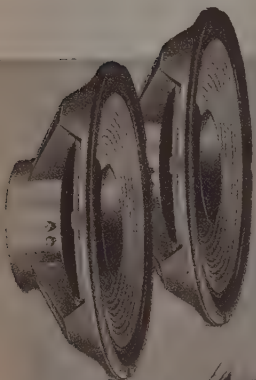
Automatic Frequency Control absolutely eliminates all FM drifting. You just tune once—never any retuning needed.

Antenna Connectors on rear accept 300-ohm FM and any AM antennas. Built-in AM loopstick.

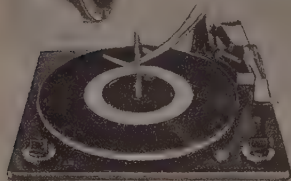


**STEREO HI-FI
MUSIC SYSTEMS**

44-Watt Stereo Systems...Price



Two Knight
KN-820 12"
Dual-Cone
Speakers



Knight KN-990 (base optional)



Knight KN-940 44-Watt Stereo
Amplifier (case optional)

Choice of
Cartridge



Choice of
Cartridge



Two KN-281
Speaker
Systems

KN-990
and Base

A Phono System

\$148⁹⁵

less amplifier case
\$8 monthly

With
Optional
KN-245 Tuner

\$239⁹⁵



With
Optional
KN-245 Tuner

\$309⁹⁵

B Phono System

\$219⁹⁵

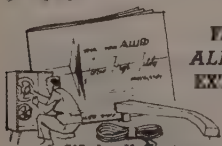
less amplifier case
\$11 monthly

**KNIGHT SYSTEMS CARRY
SEAL OF COMPATIBILITY
to Ensure Perfect Balance**

Ideally balanced
Knight systems are
selected by audio
experts to give you
far better stereo
fidelity than you'd
expect to get at
the price.



**FREE
ALLIED
EXTRAS**



With all Systems

You get all connecting cable;
cartridge installed; special
system instruction booklet.

A CUSTOM SYSTEM

You Save up to \$31.80

- New Deluxe Record Changer
- Speakers Deliver 40-13,000 cps

Tailored for any installation plan, and offering exceptional stereo fidelity. Includes: Knight KN-940 44-Watt Stereo Amplifier; Knight KN-990 4-Speed Automatic Turntable; choice of Empire 880, Shure M3D, or Pickering U38AT Stereo Cartridge; two Knight KN-820 Dual-Cone 12" Speakers. Plus connecting cable. KN-940 offers all the controls you need (see page 128). KN-990 has 4-pole motor and balanced tone arm (page 162). Speakers are only 4" deep (page 179). Less amplifier case (facing page) and changer base. Wt. 65 lbs.

22 HF 962D. Specify cartridge 148.95

22 HF 963D. Save up to \$41.30. As above, plus Knight KN-245 Stereo-FM/FM-AM tuner (less case, facing page). Specify cartridge. 80 lbs. 239.95

B BUDGET SYSTEM

You Save up to \$31.80

- KN-990 Changer Has 4-Pole Motor
- KN-281's Deliver 35-15,000 cps

Ready-to-play system selected to bring music to life dramatically in stereo. Includes: Knight KN-940 44-Watt Stereo Amplifier; Knight KN-990 4-Speed Automatic Turntable and Walnut Base; Empire 880, Shure M3D, or Pickering U38AT Stereo Cartridge; two Knight KN-281 2-Way Shelf-Size Speaker Systems in Oiled Walnut. Amplifier has lots of reserve power (see page 162). Changer boasts 11" turntable (page 162). KN-281's feature ultra-thin styling (page 173). Less case (facing page). Specify cartridge. 106 lbs.

22 HF 964D. 219

22 HF 965D. Save up to \$41.75 above, plus Knight KN-245 Stereo-FM-AM tuner (less case, facing page). Specify cartridge. 124 lbs. 309.95

or Savings...Packed with Value



KNIGHT

STEREO HI-FI SYSTEMS



o Knight
4-2250K
peaker
stem Kits

Garrard AT-6 and Base

Garrard AT-6 and Base



Choice of Cartridge

A Phono System
\$249⁹⁵
less amplifier case
\$13 monthly

With
Optional
KN-245 Tuner
\$339⁹⁵



With
Optional
KN-245 Tuner
\$369⁹⁵

B Phono System
\$279⁹⁵
less amplifier case
\$14 monthly

A STEREO PHONO SYSTEM

Save up to \$26.25 Off Our Catalog Prices!

Garrard AT-6 Changer Has Separate Manual Control
Speaker Systems Usable on Floor, Shelf, or Wall

Offers music that glows with life-like realism and
leathless beauty. Includes: Knight KN-940 44-Watt Stereo
Amplifier (see page 128); Garrard AT-6 Automatic
Turntable and Walnut Base (page 115); choice of
Empire 880, Shure M3D or Pickering U38AT Stereo
Cartridge; two KN-2250K 3-Way Speaker System Kits
Oiled Walnut (page 170). Less case. 125 lbs.

HF 966D. \$13 Monthly. 249.95
HF 967D. As above, but with factory-assembled KN-
50 speaker systems. 127 lbs. Specify cartridge. 264.95
HF 968D. Save up to \$36.20. Like 22 HF 966, plus
Knight KN-245 Stereo tuner. 143 lbs. 339.95
HF 969D. Above; assembled speakers. 349.95

B DELUXE STEREO PHONO SYSTEM

Save up to \$36.25 Off Our Catalog Prices!

- Garrard AT-6 Changer Plays all Four Speeds
- Speaker Systems Feature Four Matched Speakers

Captures the entire dynamic range of music in stunning
high fidelity. Includes: Knight KN-940 44-Watt Stereo
Amplifier; Garrard AT-6 Automatic Turntable and Walnut
Base; choice of Empire 880, Shure M3D, or Pickering
U38AT Stereo Cartridges; two Knight KN-2275 4-Way
Speaker Systems in Oiled Walnut. KN-940 has separate
bass and treble controls (see page 170). AT-6 features
4-pole motor (page 115). KN-2275's respond from 30-
20,000 cps (page 171). Less amplifier case, 125 lbs.
22 HF 970D. \$14 Monthly. 279.95
22 HF 971D. Save up to \$46.20. As above, plus Knight
KN-245 Stereo-FM/FM-AM tuner (less case, below).
Specify cartridge. 143 lbs. \$17 Monthly. 369.95

ACCESSORIES FOR ALL 44-WATT SYSTEMS

WOOD CASE FOR AMPLIFIER OR TUNER.
Finished expertly in beautiful walnut veneer
or decorator effect. 8 lbs.
DX 021D. 10.95

METAL AMPLIFIER OR TUNER CASE. 5 lbs.
95 DX 042D. 4.95
45-RPM AUTOMATIC SPINDLE. 10 oz.
95 R 462D. 1.69



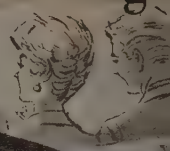
All Music Systems Are Shipped by Express

ALLIED 131

STEREO HI-FI
AMPLIFIER

KN
924

New From Knight



2 Knight KN-909 8" Hi-Fi Speakers



Garrard "Autoslim" Changer



Pickering 371-C Cartridge

A

Custom System **\$99⁹⁵**

Less Amp Case

2 Knight KN-2210 Walnut 2-Way Speaker Systems



"Autoslim" 4-Speed Changer on Walnut Base

B

Economy Shelf System **\$126⁹⁵**

Choice of Cartridge

Less Amp Case

2 Knight KN-2222 Walnut 3-Way Speaker Systems



Knight KN-990 4-Speed Record Changer on Base

C

Deluxe Shelf System **\$149⁹⁵**

Choice of Cartridge

Less Amp Case



OPTIONAL KNIGHT KN-245 STEREO FM-AM TUNER

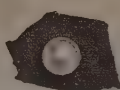
Stereo FM, regular FM, plus AM broadcasts. Save by including it with your KN-924 system. Described fully on page 129, same size as KN-924. Less case, listed below amplifier on following page. For 105-125 v. AC. 18 lbs.

95 DU 018-D. \$5 Monthly... **99.9**

Lowest Cost 28-Watt Stereo Hi-Fi Amplifier



Convenience AC Outlet located on rear panel, provides power for your turntable, record changer or tuner.



Pilot Light located on the front panel casts a bright, jewel-like glow and indicates that power is turned on.



Balance Control lets you adjust for perfect stereo effect—even if optimum speaker placement is not possible.



Bass and Treble Controls let you adjust the tone to suit your own personal tastes and room acoustics.

\$49⁹⁵
less case

NEW KNIGHT KN-924 28-WATT ECONOMY STEREO AMPLIFIER

Dollar for dollar, you can't buy a better sounding stereo amplifier in this price range. Jam-packed with features and really easy to operate, the new KN-924 is heartily commended for economy stereo home music systems. It gives you inputs for the primary sources of stereo sound, plus all essential controls. By simply flicking a switch, you go from 14 watt-per-channel stereo output to 28-watt monophonic operation. Separate bass and treble controls let you make simultaneous tonal adjustments of both channels to suit your personal listening tastes and room acoustics. Channel balancing is made easy, thanks to the handy Balance control—even if speakers cannot be positioned for optimum stereo.

Oversize output transformers and four husky tubes in twin push-pull output circuits give you plenty of undistorted power to drive most speakers to full listening levels. Convenience AC outlet located on rear panel provides power for your turntable, record changer or tuner. Handsome white panel has contrasting brushed brass overlay with gold insets on knobs. Size, 12 $\frac{1}{2}$ x9 $\frac{1}{2}$ x4 $\frac{1}{2}$ " 8 tubes plus rectifier. Supplied less case, see wood and metal cases, below. For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 19 lbs.
95 DU 034-D. \$5 Monthly..... **49.95**
95 DX 041-D. Walnut Wood Case. Wt., 8 lbs..... **9.95**
95 DX 040-D. Brown Metal Case. Wt., 5 lbs..... **3.95**

KN-924 SPECIFICATIONS

Power Output: 28 watts IHFM music power; 40 watts peak power.
Response: ± 1 db, 30-15,000 cps.
Harmonic Distortion: 1 $\frac{1}{2}$ % at rated power.

Hum and Noise: Tuner, —70 db; Mag Phono, —50 db.
Inputs: Mag Phono; Crystal (or Ceramic) Phono; Tuner; Aux.
Outputs: 4, 8, 16 ohms, plus two hi-Z for recording.

28-Watt Stereo Systems Featuring KN-924 Amplifier

ear the Knight "Seal of Compatibility"! Carefully matched by Allied's audio experts for performance, ease of operation and economy. And—systems include all necessary connecting cables plus Allied's System Instruction Booklet.



A CUSTOM SYSTEM

You Save \$17.19

Our lowest-priced Knight stereo system with magnetic cartridge. Includes: Knight KN-924 28-Watt Stereo Amplifier; Garrard Autoslim 4-Speed Record Changer; two Knight KN-809 Wide-Range 8" Coaxial Speakers; Pickering 371C Cartridge. Changer gently handles records. Speakers provide smooth base. Less case, above, and changer base, below. 38 lbs. Shpd. Exp.
2 HF 972-D. \$5 Monthly... **99.95**
2 HF 986-D. Save \$22.14. As above, plus Knight KN-245 Stereo FM-AM Tuner. Less case, uses KN-924 cases, above. 50 lbs. Shpd. Exp.
10 Monthly..... **194.95**
3 RX 057C. Chnggr Base. In mahogany, walnut or lined oak—Specify finish. Shpg. wt., 7 lbs. .390

B ECONOMY SYSTEM

Save Up to \$24.25

Great stereo at an economy price. Includes: Knight KN-924 28-Watt Stereo Amplifier; Garrard Autoslim 4-Speed Record Changer on Walnut Base; Two Knight KN-2210 2-Way Shelf Speaker Systems in Walnut Leatherette; Choice of Empire 880, Pickering U38AT, or Shure M3D Cartridge. Changer operates precisely. All are professional-quality cartridges. Speaker systems have 8" woofer, 3 $\frac{1}{2}$ " tweeter and crossover. Less amplifier case, 60 lbs. Shpd. Exp. Specify Cartridge.
22 HF 973-D. \$7 Monthly **126.95**
22 HF 974-D. Save \$36.20. As above, plus Knight KN-245 Stereo FM-AM Tuner. Less case, uses KN-924 cases, above. 78 lbs. Specify Cartridge.
\$11 Monthly. Shpd. Exp... **214.95**

C DELUXE SHELF SYSTEM

Save Up to \$31.70

Enjoy fine stereo sound at moderate cost. Includes: Knight KN-924 28-Watt Stereo Amplifier; Knight KN-990 4-Speed Automatic Turntable on Walnut Base; Two Knight KN-2222 3-Way Shelf Speaker Systems in Oiled Walnut; Choice of Empire 880, Pickering U38AT, or Shure M3D Cartridge. Automatic Turntable has 4-pole motor and balanced arm. Speaker systems have 8" woofer and isolated 3 $\frac{1}{2}$ " tweeter for excellent response. Wt., 78 lbs. Shpd. Exp. Specify Cartridge.
22 HF 973-D. \$8 Monthly **149.95**
22 HF 976-D. Save \$36.65. As above, plus Knight KN-245 Stereo FM-AM Tuner. Less case, uses KN-924 cases, above. Specify Cartridge. 96 lbs. \$11 Monthly Shpd. Exp.... **244.95**

Buy a Knight Home Music System on Allied's Credit Fund Plan

ALLIED 133



KNIGHT

STEREO HI-FI



KN
715



2 Knight KN-809 8" Wide-Range Speakers



Admiral Ensign 4-Speed Changer



Ronette Stereo Cartridge

2 Knight KN-2210 Walnut 2-Way Speaker Systems



Admiral Ensign 4-Speed Changer and Base



Jeweled Ronette Stereo Cartridge

2 Knight KN-2222 Walnut 3-Way Speaker Systems



Admiral Ensign 4-Speed Changer and Base



Ronette Stereo Cartridge

A Custom System \$74⁹⁵ \$5 monthly

B Economy Shelf System \$94⁹⁵ \$5 monthly

C Deluxe Shelf System \$114⁹⁵



OPTIONAL KNIGHT KN-245 STEREO FM FM/AM TUNER

Offers stereo FM, and monophonic FM-AM. it with KN-715 system and save! (see page 1) Less case (see facing page). For 105-125 v. 60 cycle AC. Shpg. wt., 18 lbs. 95 DU 01SD. \$5 Monthly..... 99

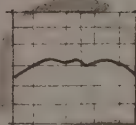
NEW Knight KN-715 15-Watt Stereo Amplifier



BALANCE control ensures best stereo effect from any listening point; with any speaker set-up.



SELECTIVE inputs—slide switch instantly selects tuner, or crystal (or ceramic) cartridge.



RESPONSE is wide and impressively smooth through entire range. Bass is natural; highs clear.

SPECIFICATIONS

IHF Music Power Output: 15 watts; 7½ per channel.

Peak Power: 20 watts.

Frequency Response: ±1 db, 100-10,000 cps.

Hum and Noise: —65 db.

Inputs: Tuner, and ceramic or crystal phono cartridge.

Outputs: 4, 8, 16 ohms.

Input Sensitivities: .35 v.

Controls: Volume, Channel Balance, Bass, 4 slide switches (Treble, Phono-Tuner, Stereo-Mono, On-Off).

- All-New—Knight's Lowest Priced Stereo Amplifier
- Wide-Range Response • Single-Knob Balance Control
- Separate Bass-Boost and Treble-Cut Controls
- Compact Size • Case Included • Has Pilot Light

With Case

\$39⁹⁵

\$5 monthly

A "first" in combining extraordinary economy with wide-range performance. Actually sells for less than you'd expect to pay for just a monophonic amplifier. Frequency response extends from 100 to 10,000 cps. Has separate stereo inputs for tuner, and a ceramic or crystal phono cartridge, plus a handy slide-switch for input selection. A separate switch permits instant choice of either stereo, or monophonic operation. Other controls include: bass knob for up to 8 db of boost at 150 cps; treble switch that attenuates 14 db at 10,000 cps (8 db at 4000 cps); single-knob balance control for easy adjustment for optimum stereo effect with any speaker arrangement; ganged volume control for simultaneous adjustment of both channels. Has pilot light. Harmonic distortion is imperceptible at normal listening levels. Includes brown metal case. Brass-finish control panel. Only 4¾x 10½x7¾". For 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs. 95 DU 032D. \$5 Monthly. **39.95**

15-Watt Stereo Systems Featuring KN-715 Amplifier

Knight's "Seal of Compatibility"—your guarantee that system components are perfectly matched. In each system—cartridge is installed in changer, and all connecting cable needed, is included.



A CUSTOM STEREO SYSTEM

You Save \$4.85

Knight's most inexpensive stereo music system—low in cost; high in quality. Includes: Knight KN-715 15-Watt Stereo Amplifier with Metal Case; Admiral Ensign 4-Speed Changer with Jeweled Ronette Ceramic Cartridge; and two Knight KN-809 8" Speakers. KN-715 described above. Smooth-operating changer mixes 10" and 12" records; shuts off automatically after last record plays. Turnover cartridge has dual sapphire needles. Knight KN-809 speakers feature compact construction—perfect for custom installations. Deliver 100-10,000 cps of impressive stereo sound (see page 181). Less changer case, below. 39 lbs. Shipped express. 22 HF 981D. \$5 Monthly. **74.95**

23 RX 062C. Changer Base. Finished in mahogany, lined oak or walnut—specify. 7 lbs. **4.49**

C DELUXE STEREO SHELF SYSTEM—SAVE UP TO \$19.29

Superb stereo music at a budget-tailored price is yours with this exceptional hi-fi system. Includes: Knight KN-715 15-Watt Stereo Amplifier with Metal Case; Admiral Ensign 4-Speed Changer; with Walnut Base; Jeweled Ronette Ceramic Turnover Cartridge; two Knight KN-2222 3-Way Speaker Systems in Oiled Walnut. Ensign changer is gentle with your records. Intermixes 10" and 12" records of the same speed automatically. Wide-

B ECONOMY SHELF SYSTEM

You Save \$9.34

Complete ready-to-play system offering quality stereo for your leisure hours. Includes: Knight KN-715 15-Watt Stereo Amplifier with Metal Case; Admiral Ensign 4-Speed Changer with Walnut Base; Jeweled Ronette Ceramic Turnover Stereo Cartridge; two Knight KN-2210 2-Way Speaker Systems in Walnut. Changer has ribbed turntable cushion. Full-range cartridge has dual sapphire needles. Compact KN-2210 speaker systems each have 8" woofer and 3¼" tweeter for full-bodied music (see page 174). Shpg. wt., 65 lbs. Shipped Express. 22 HF 982D. \$5 Monthly. **94.95**

22 HF 984D. Save \$14.29 Above, plus KN-245 tuner. Less tuner case. 85 lbs. Shipped express. **189.95**

95 DX 042D. Case for KN-245 Tuner. 5 lbs. **4.95**

range Knight KN-2222 speaker systems have 8" coaxial woofer and acoustically isolated 3½" tweeter for velvet-sound (see page 173). 75 lbs. Shipped express. 22 HF 983D. \$5 Monthly. Specify cartridge. **114.95**

22 HF 985D. Save \$19.29. Above, plus KN-245 tuner, less case. 90 lbs. Shipped express. **204.95**

95 DX 042D. Case for KN-245 Tuner. 5 lbs. **4.95**

Write for a Price Quotation on a Music System of Your Choice

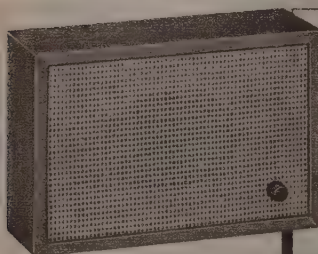
ALLIED 135

QUICK INDEX TO KNIGHT HI-FI EQUIPMENT

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5 BIG REASONS WHY KNIGHT IS YOUR BEST HI-FI BUY

- 1 Exclusive Products of Allied, Knight components are sold to you DIRECT... get highest quality, lowest prices!
- 2 Up to the Minute Audio Technology gives you the benefit of newest developments.
- 3 Choose from a Full Line of matched components and luxurious cabinetry.
- 4 Full One-Year Warranty on all parts used in any Knight product. We replace any defective part at no charge.
- 5 Components include cables, full instructions, standard plugs and jacks.



Special!

**KN-702 Reverb Unit
Plus New L-101
Speaker—Save \$1.95**

BOTH FOR

\$57⁹⁵

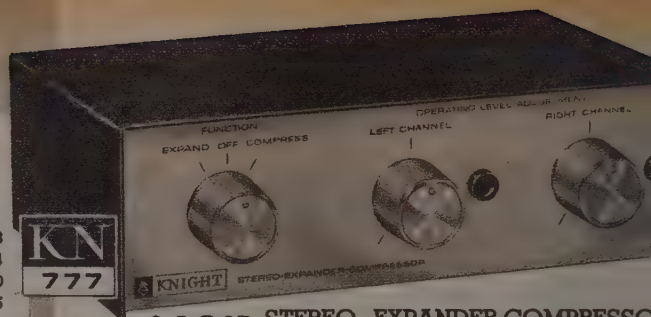
\$5 monthly

L-101 EXTENSION SPEAKER

\$9⁹⁵

- Genuine Walnut Veneer
- Front-Mounted Level Control
- Large 7x5" Oval Speaker

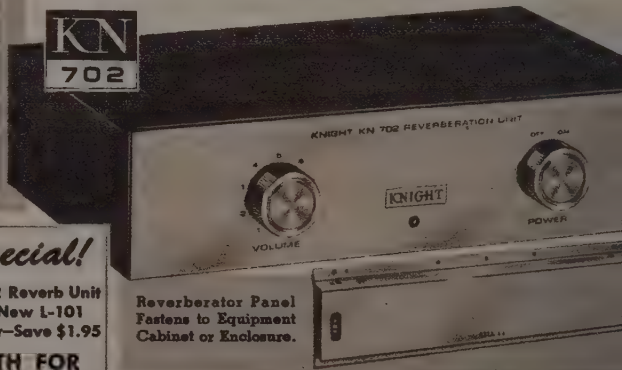
Handsomely styled and modestly priced. Ideal with KN-702 at right, or for extension-speaker use, etc. Speaker with $\frac{1}{2}$ " voice-coil offers excellent response. Genuine walnut veneer enclosure, smart cane grille. 25-ft. cable, alligator clips. Imp., 8 ohms. $11\frac{1}{2} \times 7\frac{1}{2} \times 3$ ". Shpg. wt., 5 lbs.
95 DX 353D. 9.95



\$49⁹⁵ STEREO EXPANDER-COMPRESSOR

- Dramatically Improves Recordings
- Increases Dynamic Ranges up to 8 db

Achieve breathtaking "Concert Hall" dynamic realism from your existing library of recorded material. Use the KN-777 to satisfy your demands for extra loudness when full dynamic range is necessary to emphasize musical or dramatic effect. It is no longer necessary to operate your amplifier at extreme volume level to enjoy the full musical impact of orchestral crescendos. The KN-777 automatically increases volume of your amplifier (up to 8 db) on high-level passages, to create an exciting increase in dynamic range. Low- and average-level passages are not altered—subtle nuances of the music are preserved. Switch reverses operation—compresses high levels (up to 15 db) when background music is desired—avoids unwanted volume peaks. For any amplifier with 4-16 ohm output. Needs no power supply. $21\frac{1}{4} \times 7\frac{1}{2} \times 4\frac{5}{16}$ ". Shpg. wt., 4 lbs.
95 DX 077D. \$5 Monthly 49.95



Reverberator Panel
Fastens to Equipment
Cabinet or Enclosure.

KN-702 REVERBERATION SYSTEM

\$49⁹⁵ • Adds New Depth to All Program Sources
• For Stereo and Monophonic Amplifiers

Much more than a novelty or a simple echo device, our KN-702 is an extremely valuable addition to your music system. It injects new beauty and depth into old lachluster records—imparts a vibrant professional quality to recordings made at home, and converts "dead" rooms into spacious, acoustically-perfect music halls. All this is achieved by electro-mechanically simulating the special sound-reflecting panels used in recording studios. Output control lets you adjust for precise amount of "reflection." Fidelity is not affected. Connects to output terminals of amplifier. Requires separate 8 or 16 ohm speaker, see below. Consists of Reverberator Panel and Amplifier ($25\frac{1}{2} \times 9\frac{3}{4} \times 8$ ". For 110-120 v., 50-60 cycle AC. 13 lbs.
95 DU 067D. \$5 Monthly 49.95

23 DU 990-2D. Special Combination. Save \$1.95. Includes KN-702 Reverb unit and L-101 speaker (described at left). 18 lbs. 57.95

Watt Receivers & Systems

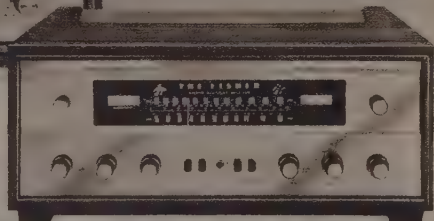


FISHER



500C—STEREO FM

... With "Stereo Beacon" that Automatically Switches to Stereo.



800C—STEREO MULTIPLEX FM/AM

GIVES YOU ALL THESE FEATURES

- Powerful 75-Watt Amplifier Assures Superb Response
- "Stereo Beacon" Automatically Switches to Stereo FM
- Front Panel Features a Complete Audio Control Center
- "Golden Synchrode" Front End for Greater Sensitivity, Overload Margin and Rejection of Spurious Signals
- "Direct Tape Monitor" Lets You Monitor as You Record
- D Arsonval Meter For Pinpoint Tuning Accuracy

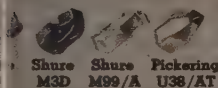


ard Type "A" Changer



Two Knight KN-2300 Speaker Systems

CHOICE OF CARTRIDGE



CUSTOM SYSTEM

\$509.95

Save \$103.70



\$583.95

Save \$113.70

COMPLETE SHELF AND CUSTOM STEREO SYSTEMS

MONO SHELF SYSTEM. A matched-quality system selected by the audio staff to provide the ultimate in stereo listening. Saves up to \$113.70 off the cost of individual components purchased separately. System includes: Fisher 500C 75-Watt Stereo Multiplex receiver; Garrard Type "A" Automatic Turntable and Oiled Base; choice of any one of 4 stereo cartridges—Empire 880, M3D, Shure M99/A "Gard-a-Matic," Pickering U38/AT; 2 Knight KN-2300 3-Way Shelf Speaker Systems in Oiled Walnut; all in a 4-speed Type "A" changer has precision pickup arm and wiper-type changer mechanism pamper your records. Each cartridge has diamond needle. KN-2300 Speaker Systems have 12" woofer, 4" range and compression tweeter. Less receiver case, at right. Cartridge. Shipped express only. 159 lbs.

169-D. \$25 Monthly. **583.95**

FM-PHONO SHELF SYSTEM. Above, with 800C 75-Watt Stereo FM Receiver, in place of 500C. Express only. 159 lbs.

168-D. \$27 Monthly. Save \$127.70. **629.95**

COM SYSTEM #1. Same as 500C FM-Phono System less receiver base and with 2 Knight KN-612HC 12" 3-Way Speakers in place of KN-2300's. Specify cartridge. Express. 123 lbs.

170-D. \$22 Monthly. Save \$103.70. **509.95**

COM SYSTEM #2. Same as 800C FM-AM-Phono System above, changer base and with 2 Knight KN-612HC 12" Speakers in place of KN-2300's. Specify cartridge. Shipped express. 123 lbs.

171-D. \$24 Monthly. Save \$114.70. **558.95**

056-C. Wood Base for Type "A." Specify mahogany, lined or oiled walnut finish. 5½ lbs. **3.90**

069. Unfinished Mounting Board for Type "A." 2½ lbs. **1.50**

500C 75-WATT STEREO MULTIPLEX FM RECEIVER

In a single deluxe unit, you get a highly sensitive FM tuner with latest stereo multiplex FM circuit, plus a stereo amplifier that gives you 75 watts of music power! Tuner's new "Golden Synchrode" front end affords greater sensitivity and overload margin plus extreme rejection of spurious and image signals. Low noise triode stages, 4 wideband IF stages and 3 limiters, including a wideband ratio detector, assure freedom from interference and noise. "Stereo Beacon" instantly signals FM multiplex broadcast and automatically switches to stereo. Complete audio control center includes direct Tape Monitor that lets you listen as you record. 8 controls, 4 switches and 17 inputs and output jacks for every program source. Stereo FM filter. **Tuner Section.** IHFM Sensitivity: 1.8 microvolts. Signal-to-Noise: 70 db. **Amplifier Section.** Output: 75 watts. **Response:** overall, 25-25,000 cps; amplifier, 50-45,000 cps, +0, -2 db. **Hum and Noise:** -80 db. **Harmonic Distortion:** 0.5% at rated power. 5¾x17½x13¼". Less case, below. For 105-120 v., 50-60 cycle AC. 40 lbs.

72 SU 542. \$18 Monthly. **389.50**

72 SX 055-C. Model 30-U Wood Case. Specify mahogany or oiled walnut. Shpg. wt., 12 lbs. **24.95**

800C 75-WATT FM-AM STEREO RECEIVER

Identical to Model 500C Multiplex FM Receiver above, but also has AM tuner section, with two-position AM bandwidth switch. AM tuner features high-gain pentode RF-amplifier, pentagrid converter, IF amplifier with variable bandwidth and a highly sensitive ferrite rod antenna. **AM Sensitivity:** 5 microvolts. **AM Selectivity:** 85 db. Less case, uses Model 30U wood case above. Size, 5¾x17½x13¼". Shpg. wt., 40 lbs.

72 SU 543. \$20 Monthly. **449.50**

Ask for Allied's Money-Saving System Quotation

It offers you a big discount on any music system. Up of components you select yourself. Study the rest of this catalog where individual components are listed; list the units you prefer; write to our Audio

Division, asking for a price quote. Our experts will review the system for proper matching of components to assure you of peak performance, and will promptly send you a quotation. No obligation!



Get Fisher Components on Allied's Credit Fund Plan—See Page 433.

ALLIED 137



FISHER

Expertly Engineered, Handsome

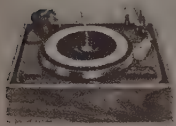


60-WATT STEREO MULTIPLEX FM RECEIVER

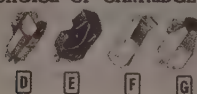
- "Stereo Beam" Indicates Stereo Broadcast
- Sensitive, Wideband FM Tuner Section
- Tape Monitor • FM Stereo Filter
- Earphone Jack and On-Off Speaker Switch

\$329⁵⁰
less case

SAVE UP TO \$98.70 ON STEREO SYSTEMS



CHOICE OF CARTRIDGE

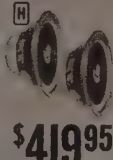


Shelf-Speaker System

\$498⁹⁵
\$21 monthly



CUSTOM SYSTEM



\$419⁹⁵
\$19 monthly



DELUXE 80-WATT STEREO AMPLIFIER

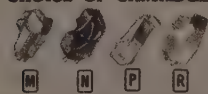
- Professional Quality • Subsonic Filter
- Stereo Dimension and Balance Controls
- Separate Power Supply for Tube Filaments
- Center-Speaker Output • Earphone Jack

\$249⁵⁰
less case

SAVE UP TO \$103.25 ON STEREO SYSTEMS



CHOICE OF CARTRIDGE

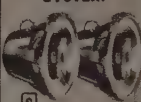


Shelf-Speaker System
as low as

\$475⁷⁵



CUSTOM SYSTEM



\$398⁹⁵
\$18 monthly

A NEW MODEL 400 STEREO MULTIPLEX RECEIVER

Superb quality at lowest cost ever for a Fisher stereo receiver. Features a highly sensitive drift-free FM tuner, a time-division modulator, and 60-watt stereo amplifier with full array of controls and features. Direct-tape monitor permits monitoring with playback controls. Loudness contour switch; 3 wideband stages; center-channel output (requires separate amplifier). Sensitivity: 1.8 μ V IHFM. Signal-to-Noise ratio: better than 50 db. Selectivity: 60 db. Channel Separation: 35 db at 1000 cps. Power: 60 watts IHFM. Response: 25-25,000 cps. Hum and 80 db below rated output. Outputs: 4, 8, 16 ohms, plus recenter and center-channel. $5\frac{3}{4} \times 17\frac{1}{2} \times 13"$. Less case, below. For v. 50-60 cycle AC. Shpg. wt., 34 lbs.

72 SX 548. \$16 Monthly. **\$329⁵⁰**
72 SX 055C. Wood Case. Mahogany or walnut—specify. 12 lbs. **\$329⁵⁰**

STEREO FM-PHONO SYSTEMS WITH FISHER

SHELF SYSTEM. Save Up to \$98.70. System includes: (A) Fisher Stereo Multiplex FM 60-Watt Receiver (described above); (B) Garrard Type "A" Turntable with Walnut Base; (C) two Knight KN-2275 High-Compliance Speaker Systems finished in Walnut; (D) Empire 880, (E) Shure M3D, (F) Shure M54C, (G) Pickering U38AT; Connecting Cables. Type "A" has 6-ft. cable with professional-type tone arm. KN-2275 has 10" woofer, mid-range, $3\frac{1}{2}"$ treble cone, dome-type super-tweeter. Cro. at 600, 4000, 10,000 cps; 25 cps to beyond audio spectrum receiver case, above. 135 lbs. Shipped express.

21 HF 176. Specify Cartridge. \$21 Monthly. **\$498⁹⁵**
CUSTOM SYSTEM. Save Up to \$93.70. As above, but with Knight KN-800HC 12" 3-Way High-Compliance Speakers instead of KN-2275 systems, and less Type "A" base. KN-800HC compression-type tweeter, tweeter-level control. 20-15,000 cps receiver case, above. 79 lbs. Shipped express.

21 HF 177. Specify Cartridge. \$19 Monthly. **\$419⁹⁵**
73 RX 056C. Wood Base for Garrard Type "A." Lined oak, or mahogany—specify. Shpg. wt., $5\frac{1}{2}$ lbs. **\$419⁹⁵**
73 RX 059. Unfin. Mtg. Board. For Type "A." Wt., $2\frac{1}{2}$ lbs. **\$419⁹⁵**

J X-202-B 80-WATT STEREO AMPLIFIER

Remarkably flexible 80-watt stereo amplifier for exquisite music production. Professional-quality throughout. Features a full array of controls, inputs and outputs for every stereo or monophonic source. Has derived-power center-channel output (no external antenna needed); switchable, dual magnetic phono inputs; high filter-sonic cutoff switch; rumble filter. Direct-tape-monitor allows playback with full use of audio controls. Music Power Output: 80 watts (IHFM). Frequency Response: ± 1 db, 20-20,000 cps. Har. Distortion: 0.5% at rated output. Hum and Noise: 90 db below rated output. 4, 8, 16 ohms. Less case, below. $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}"$. For 120 v., 50-60 cycle AC. 30 lbs.

72 SX 549. \$13 Monthly. **\$249⁵⁰**
72 SX 072. Metal Case. Simulated leather. Wt., 10 lbs. **\$249⁵⁰**
72 SX 074C. Wood Case. Walnut or Mahogany—specify. 11 lbs. **\$249⁵⁰**

STEREO SYSTEMS FEATURING FISHER X-202

SHELF SYSTEM. Save up to \$103.25. Includes: (J) Fisher X-202-Watt Stereo Amplifier; (K) Garrard Type "A" Turntable with Walnut Base; (L) two AR-2A 3-Way Speaker Systems in Walnut; (M) Empire 880, (N) Shure M3D, (P) Shure M99A, (Q) Pickering U38AT; All Cables. Type "A" has lab-balanced motor, separate manual and automatic controls. AR-2A has 12" woofer; two 5" mid-range units; dome-type super tweeter. 30 cps. Less amplifier case. 131 lbs. Shpd. express.

21 HF 178. Specify Cartridge. \$22 Monthly. **\$500⁰⁰**
21 HF 179C. As above, but Unfin. AR-2A Speakers. Save \$100.00. "A" base in lined oak, walnut or mahogany. Specify Finish and Cartridge. **\$500⁰⁰**
CUSTOM SYSTEM. Save up to \$74.70. As above, but with (K) Knight KN-612HC 3-Way Speakers in place of AR-2A system, less base for Type "A." KN-612HC has 12" woofer; whizzer tweeter. Less amplifier case. 115 lbs. Shipped express.
21 HF 180. Specify Cartridge. \$18 Monthly. **\$398⁹⁵**
73 RX 056C. "A" Base. L. oak, wal., mahog—spec. 6 lbs. **\$398⁹⁵**
73 RX 059. Unfin. Mtg. Board. For Type "A." Wt., $2\frac{1}{2}$ lbs. **\$398⁹⁵**



X-100-B 50-WATT STEREO AMPLIFIER

- \$950**
case
- 17 Front-Panel Controls • 7 Stereo Inputs
 - Deluxe Heavy-Duty Output Transformers
 - DC Tube Filaments • Center-channel Output
 - Complete Complement of Precision Controls

performance at a price that is easy on the budget. Offers 50 of crystal-clear high-fidelity stereo sound. Has 17 front-panel and switches, 14 input jacks (7 pairs) to accommodate signal source. Includes: derived-power center-channel output-concentric bass and treble controls; speaker switch and earphone jack; exclusive direct-tape-monitor; switchable, magnetic phono inputs; high filter; subsonic cutoff switch; Music Power Output (IHFM): 50 watts; Response: ± 1 db 200 cps. Hum and Noise: 88 db below rated output. Output, 8, 16 ohms; recording, center-channel. Size, $4\frac{1}{2} \times 15\frac{1}{2} \times 6\frac{1}{2}$ Less case for amplifier, below. For 105-120 volts, 50-60 cycle

app. wt., 28 lbs.
058. \$9 Monthly.....169.50
072. Metal Case. Simulated leather. Wt., 10 lbs.....15.95
074C. Wood Case. Walnut or mahogany—specify, 11 lbs. 24.95



X-101-C 60-WATT STEREO AMPLIFIER

- \$19950**
less case
- Features Exclusive "Hide-Away" Controls
 - Seldom-Used Controls Hidden Behind Panel
 - Handy Front-Panel Stereo Earphone Jack
 - Pushbutton Input Selectors • High Filter

Highlighted by the "new look" in control panels, the X-101-C offers a host of conveniences plus Fisher's traditional hi-fi quality. Infrequently-used controls are hidden behind a flip-type front panel. Easily accessible, they include: output selector; balance; dual-concentric bass and treble; plus four switches—equalization, high filter, tape monitor, and loudness contour. Visible controls include: 3-position mode selector; on-off/volume; five pushbutton input selectors. With derived-power center-channel speaker output; input jacks for "Space-x-pander." Power Output (IHFM): 60 watts. Response: ± 1 db, 20-20,000 cps. Harmonic Distortion: 0.5%. Hum and Noise: 88 db down. Outputs: 4, 8, 16 ohms. $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. 25 lbs.

72 SU 077. \$10 Monthly.....199.50
72 SX 072. Metal Case. Simulated leather. Wt., 10 lbs.....15.95
72 SX 074C. Wood Case. Walnut or mahogany—specify, 11 lbs. 24.95

Stereo Systems ...

FEATURING X-100-B AMPLIFIER



AM NO. 1. Save up to \$71.00. Includes: Fisher X-100-B 50-Watt Amplifier (above); Garrard Type "A" Automatic Turntable Base; Two Fisher KS-1B 3-Way Speaker System Kits; Choice of Case: Empire 880, Shure M3D, or Picking U38AT; All Cables. "A" has 6-pound turntable, built-in stylus pressure gauge. Speaker System Kits assemble in minutes. Smart slimline in unfinished birch. With 10" free-piston woofer, 5" mid-3" super tweeter, 3-way crossover; response, 40-18,500 cps. Case in walnut, mahogany or lined oak. Less amplifier case, Shpg. wt., 113 lbs. Shipped express.
182. Specify Cartridge, "A" Base Finish.....318.95
AM NO. 2. Save up to \$70.90. As above, but with Two KN-2275 Speaker Systems (described on facing page), and "A" Base, finished walnut. Less amplifier case, above. Wt., 129 lbs.
183. Specify Cartridge. Shipped express.....359.95

Stereo Systems ...

FEATURING X-101-C AMPLIFIER

SYSTEM NO. 1. Save up to \$72.15. Includes: Fisher X-101-C Stereo Amplifier; Garrard Type "A" Turntable with Walnut Base; two Knight KN-2275 Speaker Systems; Cartridge—Empire 880, Shure M3D, Shure M99A, or Picking U38AT. Less amplifier case, above. Wt., 134 lbs. Shipped express.
21 HF 184. Specify Cartridge. \$18 Monthly.....395.50
SYSTEM NO. 2. Save Up to \$101.25. As above, but with two Jensen TF-4 4-Way Speaker Systems. 25 cps to beyond audibility. Walnut enclosures. Less amplifier case. 142 lbs. Shpd. express.
21 HF 185. Specify Cartridge. \$17 Monthly.....435.50
SYSTEM NO. 3. Save Up to \$94.50. As above, but with Unfinished TF-4 Speaker Systems, and type "A" base in walnut, mahogany or lined oak. Less amplifier case. 142 lbs. Shpd. express.
21 HF 186. Specify Cartridge and "A" Base Finish.....404.25

Write To

ALLIED

FOR EXCEPTIONAL
SYSTEM SAVINGS

The money-saving systems on these and other pages are specially matched for finest performance. However, you can also save by selecting a system with components of your own choice, or by adding a tuner to your system. Send a list of components you choose to Allied's Hi-Fi Department Manager. Our experts will review your selection and send you a special \$S-saving price quotation by return mail.



SA-1000 STEREO BASIC AMPLIFIER. IHFM Output: 150 watts. $\pm \frac{1}{2}$ db, 20-20,000 cps. Harmonic Distortion: 0.25% at rated output. With cover. $7\frac{3}{4} \times 15\frac{1}{2} \times 12$ ". For 105-120 v., 4, 8, 16 ohms. With cover. $7\frac{3}{4} \times 15\frac{1}{2} \times 12$ ". 105-120 v., 60 cycle. 73 lbs.
72 SU 570. \$16 Monthly.....329.50
72 SU 083. 400-CX Stereo Preamplifier. 28 controls, 9 stereo inputs. $4\frac{1}{2} \times 15\frac{1}{2} \times 12$ ". For 110 v., 50-60 cycle AC. 23 lbs. 199.50
72 SX 074C. Wood Case for 400-CX. Mahogany or walnut—specify. Wt., 11 lbs. 24.95

Fisher's Finest!



X-1000 STEREO CONTROL AMPLIFIER. IHFM Output: 110 watts for superb hi-fi reproduction. With 20 front-panel controls; front panel stereo headphone jack; 9 pairs of stereo inputs. $\pm \frac{1}{2}$ db, 20-20,000 cps. Harmonic Distortion: 0.5% at rated output. Outputs: 4, 8, 16 ohms; center channel. $4\frac{1}{2} \times 16\frac{1}{2} \times 13\frac{3}{4}$ ". Less case, below. For 105-120 v., 60 cycle. 53 lbs.
72 SX 078. \$16 Monthly.....339.50
72 SX 079C. Wood Case for X-1000. Walnut finish. Shpg. wt., 11 lbs. 24.95



FISHER

"StrataKits" and Stereo Systems



KX-100 50-WATT STEREO AMPLIFIER KIT

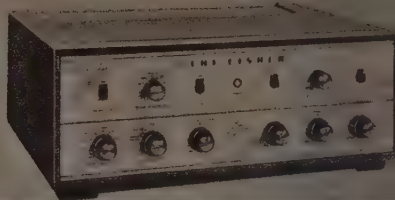
\$129.50

less case

- Preassembled Front End and Multiplex Stage
- Taping Outputs Unaffected by Tone Controls
- Derived-Power Center Channel Output
- Headphone Jack • On-Off Speaker Switch

Combines top-quality engineering and outstanding value in a kit that assembles quickly in easy, error-proof stages. Features great power reserve and unusual flexibility. Offers 7 pairs of inputs, plus 17 front-panel controls and switches. Has rumble and scratch filters, dual concentric bass and treble controls for each channel, stereo headphone jack for private listening. Derived-power center channel output needs no separate amplifier to drive speaker. Power Output: 25 watts per channel (IHFM). Response: ± 1 db, 20-20,000 cps. Harmonic Distortion: only 0.5% at rated output. Hum and Noise: 65 db down. Output Impedances: 4, 8 and 16 ohms. Brushed brass panel. $4\frac{1}{8} \times 15\frac{1}{8} \times 12\frac{1}{2}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 28 lbs.

72 SU 065. \$7 Monthly.....129.50
72 SX 072. Metal Case. Simulated leather. Wt., 10 lbs.....15.95
72 SX 074C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95



KX-200 80-WATT STEREO AMPLIFIER KIT

\$169.50

less case

- Dimension Control for Optimum Separation
- Tape-Phono Equalization • Hi Filter
- Built-In d'Arsonval Calibration Meter
- Center-Channel Output with Level Control

Affords the kit builder all the versatility and performance for available only from Fisher factory wired amplifiers. Built-in d'Arsonval laboratory-type meter assures exact circuit adjustment for peak performance. Stereo Dimension control provides any degree of channel separation—adapts unit to almost every acoustic arrangement. Derived-power center channel output needs no separate amplifier—operated by convenient front panel control. Tape monitor facilities, dual bass and treble controls, loudness tour, high frequency filter switches, plus a host of other refinements. Power Output: 40 watts per channel (IHFM). Response: ± 1 db, 20,000 cps. Harmonic Distortion: only 0.4% at rated output. Hum and Noise: 80 db down. Output Impedances: 4, 8 and 16 ohms. $4\frac{1}{8} \times 15\frac{1}{8} \times 12\frac{1}{2}$ ". Less case, at left. For 105-120 volts, 50-60 cycle AC. Shpg. wt., 29 lbs.

72 SU 066. \$9 Monthly.....169.50

Stereo Systems . . .

FEATURING KX-100 AMPLIFIER

SYSTEM NO. 1. Save up to \$55.90. Includes: KX-100 Stereo Amplifier Kit (described above); Garrard Type "A" Turntable with Walnut Base; Choice of Cartridge—Shure M3D, Empire 880, or Pickering U38AT; two Knight KN-2275 4-Way Speaker Systems in Walnut Enclosures, All Cables. Less amplifier case. 133 lbs.

21 HF 305. Specify Cartridge. \$16 Monthly. Express.....334.95

21 HF 306. System No. 2. Save up to \$80.85. No. 1, plus KM-60 FM Tuner Kit (below). Less tuner case. 154 lbs. Express.....479.50

SYSTEM NO. 3. Save up to \$47.95. Same as No. 1, but with two KN-800HC 3-Way Speakers; without Base for "A." 79 lbs.

21 HF 307. Specify Cartridge. \$13 Monthly. Express.....258.50

21 HF 308. System No. 4. Save up to \$76.00. No. 3, plus KM-60 FM Tuner Kit (below). Less tuner case. 100 lbs. Express.....399.95

73 RX 056C. "A" Base. Spec. walnut, mahog., limed oak. $5\frac{1}{2}$ lbs. 3.90

73 RX 059. Unfin. Mounting Board. For "A." Wt., $2\frac{1}{2}$ lbs.1.50



Stereo Systems .

FEATURING KX-200 AMPLIFIER

SYSTEM NO. 1 Save up to \$67.70. Includes: KX-200 Stereo Amplifier Kit (above); Garrard Type "A" Turntable with Walnut Base; Choice of Cartridge—Shure M3D, Shure M99A, Empire 880, or Pickering U38AT; two Knight KN-2300 3-Way Speaker Systems in Walnut Enclosures; All Cables. Less amplifier case. 148 lbs.

21 HF 309. Specify Cartridge. \$10 Monthly. Express.....405.95

21 HF 310. System No. 2. Save up to \$87.65. No. 1, plus KM-60 FM Tuner Kit (below). Less tuner case. 169 lbs. Express.....509.50

SYSTEM NO. 3. Save up to \$50.70. No. 1, but with two KN-600HC 3-Way Speakers; without Base for "A." 120 lbs. Express.....349.95

21 HF 311. Specify Cartridge. \$17 Monthly. Express.....349.95

21 HF 312. System No. 4. Save up to \$76.65. No. 3, plus KM-60 FM Tuner Kit (below). Less tuner case. 141 lbs. Express.....399.95

73 RX 056C. "A" Base. Spec. walnut, mahog., limed oak. $5\frac{1}{2}$ lbs. 3.90

73 RX 059. Unfin. Mounting Board. For "A." Wt., $2\frac{1}{2}$ lbs.1.50



Model KM-60 Stereo FM Kit **\$169.50** less case

KM-60 STEREO MULTIPLEX FM TUNER KIT

Highly sensitive tuner (1.8 μ V IHFM) for exceptional reception of stereo FM, plus monophonic FM broadcasts. Features Golden code front end; 4 IF stages and two limiters; subcarrier noise reduction; Stereo Beam that indicates stereo broadcasts; precision d'Arsonval tuning meter (can be used during assembly for alignment); 0 level control on each channel. Tuning and multiplex section factory assembled and aligned. $4\frac{1}{8} \times 15\frac{1}{8} \times 13$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 24 lbs.

72 SU 070. \$9 Monthly.....169.50

72 SX 072. Metal Case. Simulated leather. Wt., 10 lbs.....15.95

72 SX 074C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95



Stereo Tuner **\$199.50** less case

FM-50-B STEREO MULTIPLEX FM TUNER

Constructed by Fisher to offer outstanding reception of monophonic and stereo FM broadcasts. Employs triode RF stage and 4 IF stages for extremely high sensitivity and selectivity with minimum distortion. Also has wideband ratio detector and three fast-acting limiters. AGC, AFC, and local-distant sensitivity switch. Sensitivity: 2 μ V (IHFM). $4\frac{1}{8} \times 15\frac{1}{8} \times 17\frac{1}{8}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 17 lbs.

72 SU 063. \$10 Monthly.....199.50

72 SX 072. Metal Case. Simulated leather. Wt., 10 lbs.....15.95

72 SX 074C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95

Luxury in FM Listening from FISHER

200 STEREO MULTIPLEX FM-AM TUNER

Exclusive Stereo Beacon Automatically Switches to Stereo when Synchrode Front End for High Gain, Selectivity, and Unmodulated d'Arsenal Tuning Meter for Both FM and AM. Also has Six Controls and Three Jewel-Light Indicators.

Site for superior FM-AM reception. FM Section: Golden Cascade front end permits greatest possible overload margin and rejection of unwanted signals. Five wideband IF stages, four limiters, sensitivity (IHFM). Multiplex Section: "Stereo Beacon" indicates when multiplex broadcast is being received and switches to FM stereo mode. 35 db channel separation. AM Section: FM amplifier, converter, and two IF amplifiers. 10-ke whistle sensitivity for 2-volt output. Controls: stereo filter; mode FM muting; FM antenna; AM bandwidth; tuning. $4\frac{1}{2}\times 6\frac{1}{2}$ inches. Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. lbs.

#71. \$15 Monthly..... 299.50

#72. Metal Case. Simulated leather. Wt., 10 lbs..... 15.95

#74C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95

FM-200B STEREO MULTIPLEX FM TUNER

Satisfies the most critical FM listener for both monophonic and multiplex FM reception. "Golden Cascade" front end with tuned circuits offers astonishing selectivity. Five IF stages and limiting stages. "MicroTune" disconnects AFC when tuning is touched, restores AFC when knob is released. Interstation suppression; antenna selector; distant-local range switch; tuning meter. "Stereo Beacon" lights when stereo station is dialed, then automatically switches tuner to stereo mode. Sensitivity: $1.6\text{ }\mu\text{V}$ (IHFM). Channel Separation: more than 35 db. Size, $5\frac{1}{2}\times 12\frac{3}{4}$ inches. Less case, below. For operation from 105-120 v., 50-60 cycle AC. Wt., 23 lbs.

#91. \$15 Monthly..... 299.50

#72. Metal Case. Simulated leather. Wt., 10 lbs..... 15.95

#74C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95

FM-100B STEREO MULTIPLEX FM TUNER

Excellent choice for the discriminating audio enthusiast. Features intelligent design with advanced multiplex circuitry. "Golden Cascade" front end provides outstanding sensitivity as well as rejection of image and spurious-response rejection. Five IF stages and band limiters. Precision tuning meter; sensitivity control; dual level controls; distant-local switch. "Stereo Beacon" indicates reception of multiplex broadcast and automatically switches tuner to stereo mode. Sensitivity: $1.8\text{ }\mu\text{V}$ (IHFM); Channel Separation: 35 db. $4\frac{1}{2}\times 15\frac{1}{2}\times 13$ inches. Less case, below. For 105-120 v., 50-60 cycle AC. Wt., 23 lbs.

#81. \$13 Monthly..... 249.50

#72. Metal Case. Simulated leather. Wt., 10 lbs..... 15.95

#74C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95

MF-300 REMOTE-CONTROL STEREO FM TUNER

FM stations from your easy chair, and enjoy "center-of-the-road" tuning that is absolutely accurate! Motor-driven "Tune-O-Meter" system moves dial pointer to left or right in velvety silence. Always at the precise point of maximum signal, and the program is in breathtaking fidelity. 3-position switch stops dial on signal stations, normal-signal stations, or all stations. Auto-tuning is accomplished with remote control and 30-ft. cable, or by pushbuttons on control panel. You can tune manually. Also: "Golden Cascade" front-end with 2 nuvistors and 4 circuits; "Stereo Beacon" indicator with automatic switching; 5 stages; five wideband limiters. Sensitivity: $1.6\text{ }\mu\text{V}$ (IHFM). Channel Separation: 35 db. $4\frac{1}{2}\times 15\frac{1}{2}\times 13$ inches. Less case, below. For 105-120 v., 50-60 cycle AC. 21 lbs.

#72. \$17 Monthly..... 359.50

#73. RK-20 Wireless Remote Control Unit. For ultra convenience. Operates without connection to MF-300. 7 lbs..... 129.50

#72. Metal Case. Simulated leather. Wt., 10 lbs..... 15.95

#74C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.95

FISHER MULTIPLEX ADAPTERS (Not Illustrated)

Any tuner with multiplex adapter jack. Automatically switches to stereo. For 105-120 v., 50-60 cycle AC. Wt., 7 lbs.

#08. MPX-200. For concealed installation..... 79.50

#09. MPX-100. Stereo Beacon; Stereo Dimension. 12 lbs. 119.50

#06C. Wood Case for MPX-100. Spec. mahog. or walnut. 14.95



R-200
FM-AM
MULTIPLEX **\$299.50**
less case

Famous Fisher quality assures years of peak performance.

Fisher's renowned FM-AM tuner! Designed specially for those who require exceptional AM reception in addition to outstanding FM stereo multiplex and monophonic FM.



FM-200B
FM
MULTIPLEX **\$299.50**
less case

With "Golden Cascade," exclusive "MicroTune," and "Stereo Beacon"



FM-100B
FM
MULTIPLEX **\$249.50**
less case

With "Golden Cascade," tuning meter, and "Stereo Beacon"



NEW! REMOTE CONTROL TUNER

MF-300
FM
MULTIPLEX **\$359.50**
less case

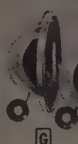
Fisher's most convenient tuning method



Big-Sound Deluxe System



CUSTOM SYSTEM



\$239
SAVE up to \$51.20

NEW 200B 30-WATT STEREO AMPLIFIER
\$139.95
 less case

- Superior Reproduction—Economy Price
- Stereo Headphone Jack on Front Panel
- Tape Playback and Monitoring Facilities
- Center-Channel Output • Subsonic Filter

Famous Scott quality at a real budget price—a value leader in performance and economy. The 200B includes many luxury features to insure excellence of reproduction and extreme versatility. Massive output transformers and 6W8 output tubes deliver full power down to the lowest audio frequencies. Hum and noise are virtually undetectable, even at full output. Subsonic cutoff filter, below 20 cps, prevents waste of useful power caused by rumble or distorted records. Almost unmeasurable distortion from feedback-type tone controls—center position is truly flat.

Also has: Scott-developed balance control; switchable scratch filter; separate bass and treble controls for each channel; tape monitor switch; volume-loudness control; plus center-channel output (requires separate amplifier). **Power Output (IHFM):** 15 watts, each channel. **Response:** ± 1 db, 30-20,000 cps. **Harmonic Distortion:** 0.8% at rated output. **IM Distortion:** 0.5% at rated output. **Hum:** 70 db down. **Output:** 4, 8, 16 ohms. $5\frac{1}{4} \times 15\frac{1}{2} \times 13\frac{1}{4}$ ". **Less case, below:** For 110-120 v., 60 cycle AC. Shpg. wt., 23 lbs.
 72 SU 553. \$7 Monthly..... **139.95**
 72 SX 001. Metal Case. Simulated leather. Wt., 8 lbs..... **13.95**
 72 SX 002C. Wood Case. Mahogany or walnut—specify. 9 lbs. **24.50**

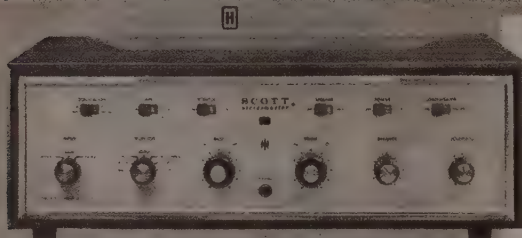
CHOICE OF CARTRIDGE



SAVE up to \$55.20

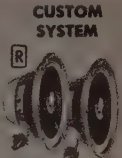
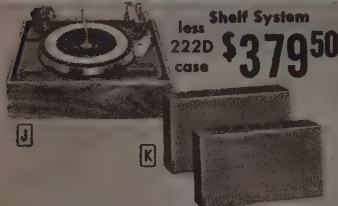
STEREO SYSTEMS FEATURING SCOTT 200B

SHELF SYSTEM. Save up to \$55.20. Includes: (A) Scott 200B Watt Amplifier (at left); (B) Garrard Type "A" Automatic Turntable with Walnut Base; (C) Two Knight KN-281 2-Way Speaker Systems in Oiled Walnut; Choice of Cartridge—(D) Empire 880, (E) M3D, or (F) Pickering U38AT; All Connecting Cable. Type "A" 6-pound cast turntable; arm with built-in stylus pressure gauge. 281 has 10" woofer, two 3 $\frac{1}{2}$ " tweeters, level control; 35-15,000 cps. **Less amplifier case, at left. 90 lbs. Shpd. express.**
 21 HF 301D. Specify Cartridge. \$15 Monthly..... **28**
CUSTOM SYSTEM. Save up to \$51.35. As above, but with (G) Knight KN-830 Speakers in place of KN-281 systems, and less "A" base. KN-830 has 12" woofer, mid-range cone, VHF type level control; 40-18,000 cps. **Less amplifier case, left. Shpd. 74 lbs. Shipped express.**
 21 HF 302D. Specify Cartridge. \$12 Monthly..... **23**
 73 RX 056C. Wood Base for Garrard Type "A." Limed oak, v. or mahogany—specify. Shpg. wt., 5 $\frac{1}{2}$ lbs.....
 73 RX 059. Unfin. Mtg. Board for type "A." Wt., 2 $\frac{1}{2}$ lbs.....



less case \$179.95

- Speaker/Earphone Switch and Stereo Jack
- Derived-Power Center Channel Output
- Tape-Monitor Switch • 4 Tone Controls



CHOICE OF CARTRIDGE
 L M N P
SAVE up to \$68.50

\$299.95
SAVE up to \$64.15

NEW 222D 50-WATT STEREO AMPLIFIER

Moderately-priced amplifier packed with power and features. Speaker switch and front-panel headset jack as speakers to permit private stereo listening. Derived-power center-channel-output directly drives "3rd-channel" or 3-speaker system. Heavy-duty output transformers. Subsonic filter prevents waste of useful power. Full array of controls and outputs for every stereo and monophonic program source. **Power Output (IHFM):** 25 watts, each channel. **Response:** ± 1 db, 20-20,000 cps. **Harmonic Distortion:** 0.8% at rated output. **Hum and Noise:** 80 db down. **Output:** 4, 8, 16 ohms. $15\frac{1}{2} \times 13\frac{1}{4}$ ". **Less case, below. For 110-120 v., 60 cycle AC. Shpg. wt., 31 lbs.**
 72 SX 552. \$9 Monthly..... **179**
 72 SX 001. Metal Case. Simulated leather. Wt., 8 lbs.....
 72 SX 002C. Wood Case. Mahog. or walnut—specify. 9 lbs.....

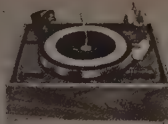
STEREO SYSTEMS FEATURING SCOTT 222D

SHELF SYSTEM. Save up to \$68.50. Includes: (H) Scott 222D Watt Stereo Amplifier (above); (I) Garrard Type "A" Automatic Turntable with Walnut Base; (K) Two Knight KN-281 2-Way High Compliance Speaker Systems in Oiled Walnut; Choice of Cartridge—(L) Empire 880, (M) Shure M3D, (N) Shure M5D, (P) Pickering U38AT; All Cables. KN-2275 has 10" woofer, mid-range, 3 $\frac{1}{2}$ " treble cone, dome-type tweeter; 25 cps. beyond audio spectrum. **Less amplifier case, above. 133 lbs. Shipped express.**
 21 HF 303D. Specify Cartridge. \$18 Monthly..... **379**
CUSTOM SYSTEM. Save up to \$64.15. As above, but with Two Knight KN-800HC High-Compliance Speakers in place of KN-2275 systems, and less type "A" base. 12" bass cone, mid-range cone, tweeter, level control; 20-15,000 cps. **Less amplifier case. Wt., 82 lbs. Shpd. express.**
 21 HF 304D. Specify Cartridge. \$15 Monthly..... **299**
 73 RX 056C. Wood Base for Garrard Type "A." Limed oak, v. or mahogany—specify. Shpg. wt., 5 $\frac{1}{2}$ lbs.....
 73 RX 059. Unfin. Mtg. Board. For type "A." 2 $\frac{1}{2}$ lbs.....

Unbeatable Savings

SCOTT

CUSTOM
SYSTEM



Shelf System

\$449.90

less
299D case

(B)

(C)



(A)

CHOICE OF CARTRIDGE



SAVE up to
\$88.10

8340
E up to
0.70



NEW 299D 80-WATT STEREO AMPLIFIER

\$229.95
less case

- Superb Craftsmanship • Deluxe Features
- Signal Lights Indicate Mode of Operation
- Derived-Power Center-Channel Output
- Speaker Switch, Front-Panel Headset Jack

STEREO SYSTEMS FEATURING SCOTT 299D

FM SYSTEM. Save up to \$88.10. Includes: (A) Scott 299D 80-Watt Stereo Amplifier (at right); (B) Garrard Type "A" Automatic Turntable with Walnut Base; (C) Two Knight KN-2300 3-Way Speakers in Oiled Walnut; Cartridge—(D) Empire 880, (E) Shure M99A, or (G) Pickering U38AT; All Cables. Type described on facing page. KN-2300 has 12" woofer, 5" mid-range, tweeter, "presence" and "brilliance" controls; 25-20,000 Hz amplifier case, at right. 152 lbs. Shipped express. **\$449.90** Specify Cartridge. \$20 Monthly.

TOM SYSTEM. Save up to \$70.70. As above, but with (H) Two Knight KN-612HC 3-way 12" Speakers in place of KN-2300 systems, less type "A" base. KN-612HC has 12" woofer, mid-range cone driver, level control; 30-19,000 cps. 125 lbs. Shpd. expr. **\$383.40** Specify Cartridge. \$18 Monthly.

056C. Wood Base for Garrard Type "A." Lined oak, walnut, mahogany—specify. Shpg. wt., 5½ lbs. **\$3.90**

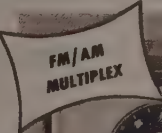
059. Unfin. Mtg. Board. For type "A." Wt., 2½ lbs. **\$1.50**

Superb stereo amplifier—designed to accommodate every existing signal source—for music reproduction of breathtaking realism. Maximum flexibility is obtained by a wealth of inputs, equalization curves, selector switches and controls. Handles low- or high-level magnetic cartridge, ceramic cartridge, tape head, tape monitoring, and microphone without changing input cables.

Separate on-off switch permits pre-setting all controls. Derived-power center-channel output directly drives separate speaker system without need for an external amplifier. Special 80-watt output circuitry assures tremendous power even on lowest frequencies. Non-magnetic aluminum chassis dissipates heat rapidly—helps to virtually eliminate hum. **Power Output (IHFM):** 40 watts, each channel. **Response:** ±1 db, 20-20,000 cps. **Harmonic Distortion:** 0.8% at rated output. **IM Distortion:** 0.5% at rated output. **Hum:** 80 db down. **Outputs:** 4, 8 and 16 ohms. Handsome brushed-brass control panel is a Scott tradition. 5¼" high, 15½" wide, 1¾" deep. **Less case, below.** For 105-125 v., 50-60 cycle AC. Wt., 34 lbs.

72 SU 551. \$12 Monthly. 229.95
72 SX 001. Metal Case. Simulated leather. Wt., 8 lbs. 13.95
72 SX 002C. Wood Case. Mahogany or walnut—specify. 9 lbs. 24.50

Write to **ALLIED**



for **MONEY-SAVING**
SYSTEM QUOTATIONS

Best way to get started in stereo is to buy a music system from Allied. You are assured of getting perfectly matched components—selected with great care by our staff of audio experts. You save money, too—your system carries a big discount price tag that offers tremendous savings off the cost of the components purchased separately.

SELECT YOUR OWN

There's always the chance that you won't see exactly what you want in a system. In that case, write and we'll show you what system components will give you the most bang for the buck. We'll come up with a plan to give you big savings!

NO MONEY DOWN

You don't do without a stereo system! We'll let you have it right away. With Allied's Credit Fund Plan, you pay no money down and take up to 24 months to pay. And, you can add-on anytime.



Model 333B

\$274.95
less case

- Superior 30 db Stereo Channel Separation
- Vernier Tuning Dials
- Sonic-Monitor Control
- Silver-Plated Front End



Model 350C **\$224.95** less case

NEW 333B STEREO MULTIPLEX FM-AM TUNER

Offers a multitude of outstanding features. Lets you enjoy stereo multiplex FM, monophonic FM, or standard AM broadcasts. Temperature-compensated oscillator assures nearly unmeasurable drift. Sonic Monitor provides positive indication of FM stereo broadcasting—gives best channel-separation possible. Switchable AGC improves subcarrier signal—reduces noise without effecting separation or response. With wide-band 2-mc detector; illuminated tuning meter; high-impedance stereo headphone jack on front panel; tape output. **Sensitivity:** 2.5 µV IHFM. **Signal-to-Noise Ratio:** 60

db. Response: ±1 db, 30-15,000 cps. **Selectivity:** 35 db, 13 tubes, 13 diodes, rectifier. 5¼x15½x13¼". **Less case, below.** For 105-125 v., 50-60 cycle AC. Wt., 22 lbs. **72 SU 558. \$14 Monthly. 274.95**

MODEL 350C. As above, but without AM band. Single vernier tuning dial. 9 tubes, 11 diodes, rectifier. Wt., 17 lbs. **72 SU 555. \$12 Monthly. 224.95**
72 SX 001. Metal Case. For 333B or 350C above. Simulated leather. 8 lbs. **13.95**
72 SX 002C. Wood Case. For 333B or 350C. Mahogany or walnut—specify. 9 lbs. **24.50**

SCOTT

"4000" SERIES

NEW 4270 ALL-TRANSISTOR STEREO AMPLIFIER

Transistor design produces tonal beauty and purity to excite the critical audiophile. Offers cooler operation, instant warm-up, lower power-consumption, imperceptible hum and noise. 27 tubes and 9 diodes. Has controls, inputs and outputs for every stereo monophonic source. Features subsonic and super-sonic cutoff. Power Output (IHFM): 30 watts per channel. Power Band: 19 cps. Harmonic Distortion: only 0.8% (20-15,000 cps) at full. Hum: 70 db below rated output. Outputs: 4, 8 and 16 ohms; channel. $5\frac{1}{2} \times 16\frac{3}{4} \times 15\frac{3}{4}$ ". Less case, below. For 110-120 v. 60 cycle AC. Shpg. wt., 38 lbs.

72 SU 550. \$18 Monthly.....39

NEW 4312 TRANSISTORIZED STEREO FM TUNER

Features astonishing reliability, extraordinarily wide and response, extremely high sensitivity, minimum power-consumption. 28 transistors, plus 4 RCA nuvistors in the front end. Automatic switches to stereo when multiplex signal is received. Silver front end; Dynaurl squelch; 2 level controls; tuning meter; guide indicator; front-panel recording jack; etc. Sensitivity: IHFM. Channel Separation: over 35 db. Response: 1 ± 0.2 db, 20 cps. $5\frac{1}{2} \times 16\frac{3}{4} \times 15\frac{3}{4}$ ". Less case, below. For 110-120 v., 60 AC. Shpg. wt., 16 lbs.

72 SU 557. \$17 Monthly.....36

MODEL 4310 STEREO MULTIPLEX FM TUNER

Scott's finest! Every conceivable feature included in this tuner. Mechanical relays automatically switch to stereo when is adequate—adjustable with threshold control. Relay-operation noise-suppression ensures completely quiet tuning. VU meters and level control; master volume control; special diversity control. Sensitivity: exceeds 1.9 μ v; Channel Separation: over 35 db; Distortion: practically unmeasurable. Response: 30-15,000 cps. 20 tubes, 21 diodes, rectifier. $5\frac{1}{2} \times 16\frac{3}{4} \times 15\frac{3}{4}$ " case, below. For 115 v., 60 cycle AC. 28 lbs.

72 SU 031. \$20 Monthly.....47

CASES FOR 4270, 4312 AND 4310

72 SX 006. Metal Case. Leatherette covered. Wt., 10 lbs....
72 SX 007C. Wood Case. Walnut or mahogany—specify. 11 lb



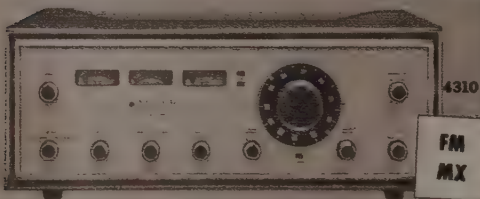
4270

FULL
60
WATTS



4312

FM
MX
Transistor
Circuit



4310

FM
MX



\$159.95
less case

H. H. SCOTT



FM STEREO
MULTIPLEX
TUNERS

\$279.95
less case

NEW MODEL 370B—FINE QUALITY, LOW PRICE

- Scott's Lowest Priced Factory Assembled Stereo Tuner
- Special Filters for Stereo-Taping Multiplex Broadcasts
- Exclusive "Sonic Monitor" • Drift-Free FM Tuning

Packed with features—priced to fit the budget of every audio connoisseur. Extremely high sensitivity for a tuner in this price range—copper-plated front end ensures maximum efficiency. Sonic Monitor provides an audible tone for positive indication of FM stereo broadcasts. By tuning to the clearest tone, you automatically achieve maximum channel separation. Temperature-compensated oscillator eliminates drift. Special filtering circuitry assures flawless tape recordings of your favorite multiplex stereo programs. Sensitivity: 1.5 μ v for 20 db quieting. Frequency Response: ± 1 db, 30-15,000 cps. Channel Separation: 28 db. Selectivity: 32 db. Signal-to-Noise Ratio: 55 db. 8 tubes, 5 diodes, silicone rectifier. $4\frac{9}{16} \times 15\frac{1}{4} \times 12\frac{1}{2}$ ". Less metal or wood case, below. For 105-120 volts, 50-60 cycle AC. Shpg. wt., 15 lbs.

72 SU 554. \$9 Monthly.....159.95

72 SX 001. Metal Case. Simulated leather. Wt., 6 lbs.....13.95

72 SX 002C. Wood Case. Walnut or Mahogany—specify. 8 lbs. 24.50

NEW 310E—OUTSTANDING HI-FI FEATURES

- "Auto-Sensor" Circuit Automatically Switches to Stereo Mode
- Threshold Control Eliminates Noise • Subchannel Filter
- Front-Panel Tape Recorder Output • Separate On-Off Switch

Magnificent instrument for the discriminating high-fidelity enthusiast. Features extreme sensitivity, selectivity, low distortion drift-free tuning. Amazing Auto-Sensor automatically detects the presence of a stereo FM broadcast and instantly switches tuner stereo mode. Immediately returns to monophonic when stereo gram ends. Stereo threshold control assures noise-free reception of off-the-air stereo tape recordings. Maximum sensitivity achieved with heavily silver-plated front end. Scott's unique station noise suppressor automatically mutes audio when in-between stations. With dynaurl squelch control, stereo indicator, sensitive tuning meter, etc. Sensitivity: 1.9 μ v. Response: ± 1 db, 30-15,000 cps. Channel separation: better than 30 db. Selectivity: 50 db. S/N ratio: 65 db. 15 tubes, 13 diodes $4\frac{9}{16} \times 15\frac{1}{4} \times 13\frac{1}{4}$ ". Less metal or wood case, at left. For 110-120 cycle AC. Shpg. wt., 18 lbs.

72 SU 547. \$14 Monthly.....279

SCOTT

340B Stereo Multiplex FM Tuner-Amplifier

Great New 70-Watt Stereo Tuner-Amplifiers

CHECK THESE DELUXE FEATURES

- Sensor for Automatic Stereo Switching
- Filter for Off-the-Air Stereo Tape Recording
- Speaker Switch and Front-Panel Headphone Jack
- Super-Sensitive Silver-plated FM Front End
- Center-Channel Output
- Tape-Monitor Switch
- On-Off Switch
- Separate Phase-Switch

MODEL 380 FM-AM STEREO TUNER-AMPLIFIER

\$59.95

less case

- Extra-Sensitive Wideband AM Section with Adjustable IF Bandwidth
- FM Front-End Heavily Silver Plated
- Precision Tuning Meter for Best Signal
- Easy to Install in Any Component Cabinet

Available new tuner-amplifier combines exquisite music reproduction, extreme versatility, and Scott's traditional handsome design. Listen to thrilling stereo multiplex FM, monophonic FM, standard AM broadcasts. Full array of inputs, outputs and controls for every conceivable stereo or monophonic program. Amazing Auto-Sensor circuitry detects the presence of stereo FM broadcast and instantly switches tuner to the stereo. Light flashes-on to indicate stereo. Tuner immediately switches to monophonic operation when stereo program is over. Speaker switch and front-panel headphone jack permit stereo listening. Center-channel power output directly to separate speaker system using either the master level or a remote control. Easy-to-read, precision planetary mechanism for effortless tuning. Indicator lights instantly tell you of operation. Phase switch on rear panel for easy connection of speakers.

Section. Sensitivity: 2.2 μ v, IHFM. **Signal-to-Noise Ratio:** 60 db. **Response:** ± 1 db, 20-20,000 cps. **Selectivity:** 35 db; **Channel rejection:** better than 30 db. **Output:** 35 watts per channel, 100 ohms. **Hum and Noise:** 80 db below rated output. **Power Bandwidth:** ± 1 db, 20-20,000 cps, IHFM. **Output Impedance:** 4, 8, 16 ohms. 22 tubes, 20 diodes, selenium rectifier. **Less case, w/ 5 1/2" high, 16 3/4" wide, 16" deep. For 110-120 v., 60 cycle Shpg. wt., 41 lbs.**

Model 380. \$20 Monthly.....**459.95**

MODEL 340B FM STEREO TUNER-AMPLIFIER

Has deluxe features as Model 380 above, but without AM tuner section. Plays monophonic FM and stereo multiplex FM. 19 tubes, 21 diodes, selenium rectifier. **Less case, below. For 110-120 v., 60 cycle AC. Shpg. wt., 41 lbs.**

Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

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Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

Model 340B. \$18 Monthly.....**399.95**

380 FM-AM Stereo Multiplex Tuner-Amplifier



Garrard Type "A" with Base



Two Knight KN-2300 Speaker Systems

CHOICE OF CARTRIDGE



Empire 880

Shure M3D

Shure M99A

Pickering U38AT

Shelf System as low as

\$589.95
less case

Save up to \$128.15 on Systems

SHELF SYSTEMS WITH 380 OR 340B

SYSTEM NO. 1. Save up to \$128.15. Luxury system for brilliant stereo or monophonic listening—first-quality components are matched for superlative sound. System includes: Scott 380 Stereo Multiplex FM-AM Tuner-Amplifier (described at left); Two Knight KN-2300 3-way Shelf-type Speaker Systems in Oiled Walnut; Garrard Type "A" 4-Speed Automatic Turntable with Walnut Base; Choice of Stereo Cartridges: Empire 880, Shure M3D, Shure M99A "Gard-A-Matic," Pickering U38AT; All Connecting Cables. KN-2300 speaker systems have 12" woofer, 5" mid-range, and high-frequency compression tweeter; front-mounted "presence" and "brilliance" controls; crossovers at 800 and 5000 cps; response, 25-20,000 cps. 13 1/2 x 24 3/4 x 12". Type "A" has 6-pound turntable; turntable-type arm with built-in stylus pressure gauge; separate manual and automatic controls. Less tuner-amplifier case, at left. 175 lbs. Shipped express.

21 HF 172. Specify Cartridge. \$27 Monthly.....**639.95**

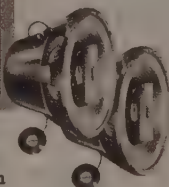
21 HF 173. System No. 2. Save up to \$118.05. As above, but with Model 340B FM tuner-amplifier. 161 lbs. Specify Cartridge.. **\$589.95**

CUSTOM SYSTEMS WITH 380 OR 340B

SYSTEM NO. 3. Save up to \$119.15. Similar to System No. 1, but with two Knight KN-612HC 3-way 12" speakers in place of KN-2300 systems, and without base for type "A" (separate, below). KN-612HC has 12" woofer, whizzer cone, compression tweeter; 4.6-pound magnet; "brilliance" control; response, 30-19,000 cps. **Less case for 380, at left. 131 lbs. Shipped express.**

21 HF 174. Specify Cartridge.....**\$564.95**

21 HF 175. System No. 4. Save to \$105.15. As above, but with 340B. Spec. Cart.....**\$518.95**



WOOD BASE FOR GARRARD TYPE "A" TURNTABLE. In mahogany, limed oak, or walnut—specify choice. Shpg. wt. 5 1/2 lbs. **73 RX 056C.....3.90**
73 RX 059. Unfinished Mounting Board. For custom installation of Garrard type "A" turntable. Shpg. wt. 2 1/2 lbs.....**1.50**

WRITE TO
ALLIED

for a Money-Saving System
Price Quotation

Write to Allied's High-Fidelity Manager should you wish to select components of your own choice for use with the Scott 380 or 340B. select any other system with a Scott tuner, amplifier or tuner-amplifier combination. Our experts will review your selection and give you a money-saving price quotation.

Music Systems come with Instruction Book and Cartridge Installed

ALLIED 145



LK-72 80-WATT STEREO AMPLIFIER KIT

\$164⁹⁵
Less Case

- Every Desirable Input and Control Facility
- Plenty of Power for Unexcelled Sound Quality
- Bass and Treble Controls for Each Channel

Enjoy renowned Scott quality and precision design at lowest cost, by assembling this outstanding stereo amplifier yourself. Delivers plenty of reserve power to assure thrilling sound quality. Full array of controls gives you complete command over audio reproduction; there are stereo inputs for any music source; including tape decks. Also: DC preamplifier-operated filaments for minimum hum; provision for tape monitoring; scratch and rumble filters. Conservatively-rated components give long-life, trouble-free operation. IHFM Power Output: 40 watts per channel. Frequency Response: ± 1 db, 20-20,000 cps. Harmonic Distortion: 0.8%. Hum and Noise: -80 db. Outputs: 4, 8, and 16 ohms for speakers; high-impedance output for stereo tape recorder. Size, $4\frac{1}{2} \times 15\frac{1}{4} \times 12\frac{1}{2}$ ". Less case, below, right. For operation from 105-125 v., 50-60 cycles AC. Shpg. wt., 33 lbs. Shipped express only.

72 SZ 000. \$9 Monthly..... **164.95**

SYSTEM FEATURING LK-72 AMPLIFIER KIT

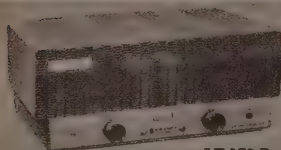
Save up to \$45.35

\$340⁹⁵
\$17 monthly



Deluxe home music system provides outstanding reproduction from all of your stereo records. System includes: Scott Model LK-72 80-Watt Stereo Amplifier Kit; Garrard Type "A" 4-Speed Automatic Turntable on Walnut Base; choice of Pickering U-38AT, Shure M3D, or Empire 890 Stereo Cartridge; Two Knight KN-2250K 3-Way Speaker System Kits in Walnut. Amplifier less case, below, right. Wt., 132 lbs. Shipped express only. Specify cartridge.

21 HF 181 D. Save up to \$45.35. \$17 Monthly..... **340.95**



LK-150 Basic Amplifier



LC-21 Preamp

LK-150 AMPLIFIER KIT. Deluxe stereo basic delivers 65-watts-per-channel IHFM. Has massive 15-pound output transformers, bias meter. Power bandwidth: exceeds 19-25,000 cps. Hum: -85 db. Harmonic distortion: below 0.5%. Matches LC-21, below. $7\frac{1}{4} \times 15\frac{1}{4} \times 11\frac{1}{4}$ ". Less case, 115 v. AC. 54 lbs. Shipped express.

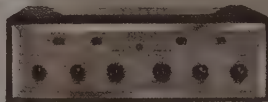
72 SZ 009-2. \$9 Monthly..... **179.95**
72 SX 020. Case. For above. 8 lbs..... **19.95**

LC-21 STEREO PREAMP KIT. Deluxe control center. Full inputs and controls, shielded power supply. Response: ± 1 db, 8-50,000 cps. Distortion: 0.1%. Brown and gold. $8\frac{1}{4} \times 15\frac{1}{2} \times 13\frac{1}{4}$ ". Less case, below, right. 115 v. AC. 16 lbs.

72 SU 003. \$3 Monthly..... **99.95**

SIMPLIFIED KIT ASSEMBLY

Carefully engineered, these Scott Kits incorporate techniques for easy building: "Kit" container opens to become a work area; wires are pre-cut to correct length... mechanical parts are pre-riveted on the chassis... are packaged in order of use... full-color instruction books for easy parts identification; tuner kits use "Ex-A-Line" alignment system—no special tools needed. The hard work is—the fun's left for you!



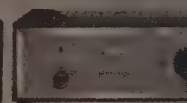
Model LK-48



Model LK-30



Model LT-110



Model LT-111

LK-48 50-WATT AMPLIFIER KIT. New stereo amplifier delivers per-channel IHFM output. Features switched stereo head output and amplified center-channel output with controlled DC-heated preamplifier filaments. Has full controls and Response: ± 1 db, 20-20,000 cps. Distortion: 0.8%. Hum and Noise: -80 db. $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Brown and gold styling. Less case. For 105-125 v., 50-60 cycle AC. 29 lbs. Shipped express. 72 SZ 010. \$7 Monthly..... **164.95**

LK-30 30-WATT AMPLIFIER KIT. Now you can get Scott quality remarkably low price. Massive output transformers for power bass; derived center-channel output jack; stereo headphones tape head and monitor inputs. IHFM Output: 15 watts per channel. Response: ± 1 db, 20-20,000 cps. Distortion: 0.8%. Hum and Noise: -80 db. Output Impedances: 4, 8, 16 ohms. $4\frac{1}{2} \times 15\frac{1}{2} \times 13$ ". Brown and gold. Less case, below. For 105-125 v. AC. 26 lbs. Express. 72 SZ 545. \$5 Monthly..... **139.95**

LT-110 STEREO FM TUNER KIT. Deluxe multiplex circuit provides superb stereo FM reception. Offers Scott's "Sonic Monitor," plated front end, and wideband circuitry. Front-end and intermediate sections pre-wired and pre-aligned. Has 3 IFs, 2 limiters, detector bandwidth. Sensitivity: 2.2 μ v. IHFM. 9 tubes, 11 $4\frac{1}{2} \times 15\frac{1}{4} \times 12\frac{1}{2}$ ". Less case. For 105-125 v., 60 cycle AC. Shipped express. 18 lbs. Shipped express. 72 SZ 536. \$9 Monthly..... **109.95**

LT-111 STEREO FM TUNER KIT. New, low-priced stereo FM kit offers latest "Compaction" circuitry for top performance. "Time-Switching" multiplex circuitry, wideband design; "Monitor" stereo indicator, precision tuning meter. RF from pre-wired and pre-aligned. Sensitivity: 3.5 μ v. IHFM. 8 tubes, 11 $4\frac{1}{2} \times 15\frac{1}{4} \times 12\frac{1}{2}$ ". Less case, below. For 105-125 v., 50-60 cycle AC. Shpg. wt., 16 lbs. Shipped express. 72 SZ 544. \$6 Monthly..... **109.95**

OPTIONAL METAL AND WOOD CASES

TYPE C METAL CASE. For Scott amplifier, preamp, and tuner on this page (except LK-150). Handsome brown simulated-leather. Shpg. wt., 8 lbs. 72 SX 001..... **19.95**

TYPE CW WOOD CASE. For Scott amplifier, preamp, and tuner on this page (except LK-150). Expertly crafted; hand-rubbed; Specify mahogany or oiled walnut. 9 lbs. 72 SX 002-C. Specify Finish..... **19.95**

World-Famous "Citation" Kits by

harman kardon

CITATION II STEREO BASIC AMPLIFIER KIT

995

- 120-Watts Continuous—60 per Channel
- Flat 18-60,000 cps Response at 60 Watts
- Distortion is Virtually Unmeasurable
- Meter and Six Adjustment Controls

monthly

Remarkable instrument with tremendous reserve power. Made for reproducing music reproduction and rugged dependability—an excellent choice for the "heart" of a deluxe stereo system. Military-terminal boards, heavy-duty components, and special Cable assure easy assembly and performance identical to the factory-wired unit. Solid-state power supply for precise regulation contributes to excellent transient response. Hum and Noise: less than 90 db below 60 watts; Harmonic Distortion: less than 0.05% at 60 watts. Rise Time: 3 microseconds. Outputs: 4, 8, 16 ohms. 6x11 1/4". Less case below. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 74 lbs.

102-2. \$9 Monthly..... 179.95

103. As above, but factory wired. \$13 Monthly..... 249.95

116. Metal Case. For above. Shpg. wt., 3 lbs..... 7.95

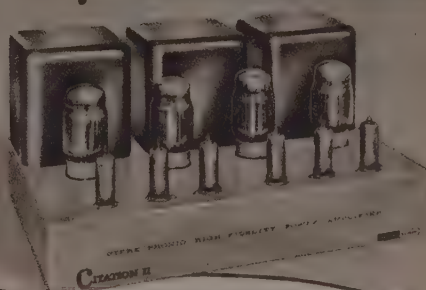
CITATION "A" TRANSISTOR STEREO PREAMP KIT

Requirements of the audio perfectionist—unmeasurable distortion, maximum flexibility, flat response to 1,000,000 cps! Ideal for use with Citation II or other deluxe basic amplifiers. Features: dual tone controls for each channel; stereo headphone jack; tape-monitor switch; adjustable center-channel output; on-off switches for amplifier and system; high and low-cut filters; loudness contour switch; lead trim controls. Hum and Noise: 70 db down. IM Distortion: less than 0.05% at 2-v. output. 35 transistors. 5 1/2 x 14 1/2 x 7". Less case, for 110-120 v., 50-60 cycle AC. 33 lbs.

109. \$14 Monthly..... 269.95

110. As above, Factory Wired. \$17 Monthly..... 350.00

201. Wood Cabinet. Walnut veneer. Wt., 5 lbs..... 20.00



Latest Citation II Amplifier
Ideal for Use with Citation "A"
Preamp Kit or Citation I Kit



Citation
"A" \$269.95



\$230.00



\$119.95



\$159.95

PROFESSIONAL CITATION I-X STEREO FM TUNER KIT

Precision instrument for brilliant stereo reception of complex FM and monophonic FM. Features outstanding sensitivity and ultra-wideband response. Distortion is virtually non-existent. Stereo front-end, AFC, RF gain control, auto indicator light, two tuning meters. Factory wired and aligned sub-chassis control all critical circuitry, greatly simplifies assembly. Sensitivity: 1.5 μ V IHFM; Rejection: $\pm 1/2$ db, 1-52,000 cps; Distortion: less than 0.1% at 100% modulation. 6x14 1/4". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 43 lbs.

U 104. \$12 Monthly..... 230.00

U 105. Above, Factory Wired..... 315.00

X 115. Walnut Case. 5 lbs..... 29.95

CITATION IV STEREO PREAMPLIFIER KIT

Designed for versatility and excellent music reproduction—ideal with Citation V basic amplifier below. Features: dual tone controls for each channel; balance and blend controls; tape-monitor switch; contour switch; rumble and scratch filters; DC-operated filaments; etc. Military-type terminal boards. 6 tubes plus 4 rectifiers. Response: ± 0 , -0.5 db 5 to 80,000 cps; Distortion: less than 0.05% at 2-v. output; Hum and Noise: 85 db below rated output. 5 1/2 x 14 1/2 x 11". Less case, below. For 110-120 v., 60 cycle AC. Shpg. wt., 28 lbs.

72 SU 111. \$6 Monthly..... 119.95

72 SU 112. Above, Factory Wired..... 189.95

72 SX 115. Walnut Case. 5 lbs..... 29.95

CITATION I DELUXE STEREO PREAMPLIFIER KIT

Complete stereo control center for the fine hi-fi system—a favorite for use with Citation II basic amplifier above. Includes many professional features: step-type tone controls for both channels; phasing switch; tape monitor; controlled third-channel output, high and low-cut filters; contour control. Delivers precise equalization with no phase shift. Response: flat to 80,000 cps; Distortion less than 0.05% at 2-v output; Hum and Noise: 85 db below rated output. 6x14 1/2 x 12 1/4". Less case, below. For 110-120 v., 60 cycle AC. 34 lbs.

72 SU 100. \$8 Monthly..... 159.95

72 SU 101. Above, Factory Wired..... 249.95

72 SX 115. Walnut Case. 5 lbs..... 29.95

CITATION V 80-WATT STEREO BASIC AMPLIFIER KIT

Compact version of the Citation II—delivers 80 watts per channel. Output stage boasts 7581 tubes operating conservatively in ultra-balance circuit. Bias meter permits fine adjustments of each pair of output tubes. Power supply consists of 4 hermetically sealed silicon diodes, and heavy-duty electrolytics. Response: 7-45,000 cps at

40 watts; Distortion: below 0.5% at 40 watts; Hum and Noise: 85 db below 40 watts. Outputs: 4, 8, 16 ohms. 5 1/2 x 13 1/2 x 11 1/4". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 48 lbs.

72 SU 113-2. \$6 Monthly..... 119.95

72 SU 114. Above, Factory Wired..... 179.95

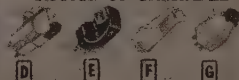
72 SX 117. Metal Case. Wt., 5 lbs..... 7.95



\$119.95
ALLIED 147



CHOICE OF CARTRIDGE



Shelf System **\$384⁰⁰** \$18 monthly

CUSTOM SYSTEM **\$338⁰⁰**

TA-3000X 30-WATT STEREO FM-AM RECEIVER

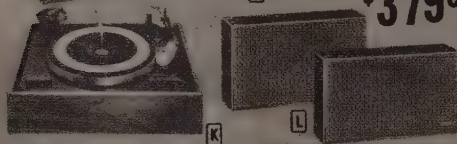
Distinguished styling and professional performance at a very economical price. Combines a highly sensitive stereo multiplex FM tuner with an excellent AM tuner, and a powerful, extremely versatile 30-watt amplifier. Controls include: function switch; loudness blend; balance; ganged bass and treble; stereo reverse switch; phono/tape selector; contour; low and high-frequency switches; pushbutton power switch (eliminates re-setting volume).

FM SECTION: features three IF stages, wideband Foster-Seely discriminator, and gated-beam limiter to virtually eliminate distortion and noise. **Sensitivity:** 3.2 μ V (IHFM). **Distortion:** less than 0.1% at 100% modulation. **Hum:** 60 db down. **AM SECTION:** high-gain RF stage, wideband IF, and quick-action AVC. **AMPLIFIER SECTION:** provides cleanly defined, low-frequency reproduction and excellent overload characteristics. **Power Output:** 15 watts per channel (IHFM). **Response:** ± 1 db, 15-70,000 cps at normal listening level. **Harmonic Distortion:** less than 1% at 30 watts. **Hum:** 80 db down. **Outputs:** 4, 8, 16 ohms. 57 $\frac{1}{2}$ x 15 $\frac{1}{2}$ x 11 $\frac{1}{2}$ ". Less case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 40 lbs.

72 SU 141. \$13 Monthly. **249.95**
72 SX 160. CX80 Gray Metal Case. Shpg. wt., 9 lbs. 12.95
72 SX 169. WW80 Walnut Case. Shpg. wt., 13 lbs. 29.95



Shelf System **\$379⁵⁰**



CUSTOM SYSTEM **\$299⁹⁵**



A-300 **\$99⁹⁵**
less case

"Award Series" Stereo

SAVE UP TO \$74.00 ON TA-3000X SYSTEMS

SHELF SYSTEM. Save up to \$74.00. System includes: (A) Harman Kardon TA-3000X FM, AM Receiver (at left); (B) Garrard Type "A" Automatic Turntable with Walnut Base; (C) two Knight KN-281 2-Way Speaker Systems in Oiled Walnut Enclosures; Choice of Cartridge—(D) Empire 880, (E) Shure M3D, (F) Shure M99A, (G) Pickering U38AT; All Cables. KN-281's have 10" woofer, two 3 $\frac{1}{2}$ " tweeters, level control. Less receiver case. 107 lbs. 21 HF 196D. Specify Cartridge. Shipped express. **384.00**

CUSTOM SYSTEM. Save up to \$70.10. As above, but (H) two Knight KN-830 3-Way Speakers in place of KN-281 systems, and level base for "A." KN-830's have 12" woofer, mid-range cone, tweeter with level control. Choice of cartridge—(D) Empire 880, (E) Shure M3D, (F) Shure M99A, or (G) Pickering U38AT. Less receiver case. 91 lbs. Shpg. express. 21 HF 197D. Specify Cartridge. \$16 Monthly. **338.00**

73 RX 056C. Wood Base for Garrard Type "A." Mahogany, lime oak, or walnut—specify. Shpg. wt. 5 $\frac{1}{2}$ lbs. 3.95
73 RX 059. Unfin. Mtg. Board for Type "A." Wt. 2 $\frac{1}{2}$ lbs. 1.50

NEW A-700 70-WATT STEREO AMPLIFIER

Loaded with power and deluxe features—offers a full array of controls and inputs. Speaker selector switch permits use of two pairs stereo speaker systems—select either pair of speakers, or play it together. Blend Control avoids "hole in the middle" effect—special indicator lights show degree of blend between channels. Front panel stereo headphone jack with speaker-deaf switch. Illuminated pushbutton on-off switch; tape monitor switch; individual bass and treble controls on each channel. **Power Output:** 35 watts per channel (IHFM). **Response:** ± 0.5 db, 10-40,000 cps at normal listening level. **Harmonic Distortion:** below 0.5% at rated output. **Hum & Noise:** 8 db down. **Outputs:** 4, 8, 16 ohms. 57 $\frac{1}{2}$ x 15 $\frac{1}{2}$ x 12". Less case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 35 lbs. 72 SU 581D. \$9 Monthly. **179.95**

72 SX 126. CX50 Gray Metal Case. Shpg. wt., 9 lbs. 12.95
72 SX 127. WW50 Walnut Case. Shpg. wt., 13 lbs. 29.95

SAVE UP TO \$68.50 ON A-700 SYSTEMS

SHELF SYSTEM. Save up to \$68.50. System includes: (J) Harman Kardon A-700 Amplifier (above); (K) Garrard Type "A" Automatic Turntable with Walnut Base; (L) two Knight KN-2275 4-Way Speaker Systems in Oiled Walnut Enclosures; Choice of Cartridge—(M) Empire 880, (N) Shure M3D, (P) Shure M99A, or (R) Pickering U38AT; All Cables. Less amplifier case. 142 lbs. Shpg. express. 21 HF 198D. Specify Cartridge. \$18 Monthly. **379.50**

CUSTOM SYSTEM. Save up to \$64.15. As above, but with (S) two Knight KN-800HC 3-Way Speakers in place of KN-2275 systems, or less base for Type "A." Less amplifier case. Wt. 86 lbs. 21 HF 199D. Specify Cartridge. \$15 Monthly. Shpg. express. **299.95**

73 RX 056C. Wood Base for Garrard Type "A." Mahogany, lime oak, or walnut—specify. Shpg. wt. 5 $\frac{1}{2}$ lbs. 3.95
73 RX 059. Unfin. Mtg. Board for Type "A." Wt. 2 $\frac{1}{2}$ lbs. 1.50

MODEL A-300 30-WATT STEREO AMPLIFIER

Handsome styling and excellent performance in a low-cost unit. Balance, blend, tone controls. On-off switch. 15 watts per channel (IHFM). ± 1 db, 15-70,000 cps at 1 watt. Imp. 4, 8, 16 ohms. 57 $\frac{1}{2}$ x 15 $\frac{1}{2}$ x 11 $\frac{1}{2}$ ". Less case. For 110-120 v., 50-60 cycle AC. 28 lbs. 72 SU 136. \$5 Monthly. **99.95**

72 SX 126. CX50 Gray Metal Case. Shpg. wt., 5 lbs. 12.95
72 SX 127. WW50 Walnut Case. Shpg. wt., 6 lbs. 29.95



CUSTOM SYSTEM
\$429.95

CHOICE OF CARTRIDGE
D E F G

Shelf System \$507.50 \$22 monthly



Components and Systems

VE UP TO \$100.50 ON TA-7000X SYSTEMS

SYSTEM. Save up to \$100.50. System includes: (A) TA-7000X or (at right); (B) Garrard Type "A" Automatic Turntable Walnut Base; (C) two Knight KN-2275 4-Way Speaker Systems d Walnut Enclosures; Choice of Cartridge—(D) Empire 880, (E) M3D, (F) Shure M99A, (G) Pickering U38AT; All Cables. 'S have 10" woofer, 8" mid-range, 3 1/2" treble cone, dome-tweeter. Less receiver case, 150 lbs. Shpd. express.

321D. Specify Cartridge. \$22 Monthly. **507.50**

DM SYSTEM. Save up to \$94.15. As above, but with (H) two KN-800HC High-Compliance Speakers in place of KN-2275's, and less base for Type "A". Knight KN-800HC's have 12" woofer, mid-range cone, compression tweeter, level control. Less receiver case, at right, 94 lbs. Shpd. express.

322D. Specify Cartridge. \$19 Monthly. **429.95**

356C. Wood Base for Garrard Type "A". Mahogany, lined walnut—specify. Shpg. wt. 5 1/2 lbs. **3.90**

359. Unfin. Mtg. Board. For Type "A". Wt. 2 1/2 lbs. **1.50**

TA-3000X 30-WATT STEREO FM RECEIVER

engineered and constructed—designed to provide performance you would expect to find in units costing much more. Full range of controls include: mode selector; input selector; loudness; treble; balance; separate, ganged bass and treble; equalization; rumble; scratch; AFC; tuning; pushbutton on-off switch. On dial-face indicates when stereo FM is being received. AF section gives powerful bass and clean highs. Wideband section has excellent sensitivity and selectivity. **Power Output:** 5 watts per channel (IHFM). **FM Sensitivity:** 3.5 μ V (IHFM). **Distortion:** ± 1 db, 15-70,000 cps at 1 watt output. **Hum:** 80 db below output. **Outputs:** 4, 8 and 16 ohms. Tape head inputs, recorder inputs. 13 tubes, 7 diodes, 2 rectifiers. 5 7/8" x 15 1/4" x 11 1/2". Less case, 13 lbs. For 110-125 v., 50-60 cycle AC, 38 lbs.

\$40. \$11 Monthly. **219.95**

160. CX80 Gray Metal Case. Shpg. wt. 9 lbs. **12.95**

169. WW80 Walnut Wood Case. Shpg. wt. 13 lbs. **29.95**

AVE UP TO \$68.75 ON FA-3000X SYSTEMS

SYSTEM. Save up to \$68.75. System includes: (J) FA-3000X or Kit (described above); (K) Knight KN-990 Changer with Walnut Base; (L) two Knight KN-2222 3-Way Speaker Systems in Walnut Enclosures; Choice of Cartridge—(M) Empire 880, (N) M3D, or (P) Pickering U38AT; All Connecting Cables. KN-990 have 8" woofer with mid-range cone, special compression-tweeter. Less receiver case, 94 lbs.

324D. Specify Cartridge. Shipped express. **283.00**

DM SYSTEM. Save up to \$66.80. As above, but with (R) Two KN-820 2-Way Speakers in place of KN-2222 systems, and use for KN-990 changer. KN-820's have dual-cone design with woofer for powerful bass and smaller cone for clean mid-range highs. Less receiver case, 72 lbs. Shpd. express.

323D. Specify Cartridge. \$13 Monthly. **254.95**

460. Walnut Base for KN-990. Shpg. wt. 5 lbs. **4.00**

51. Unfin. Mtg. Board for KN-990. Wt. 2 lbs. **1.50**

TA-7000X 70-WATT STEREO FM-AM RECEIVER

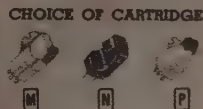
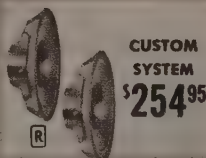
A deluxe stereophonic home music center for years of enjoyment. Provides 70 watts of power to flawlessly reproduce stereo multiplex FM, monophonic FM, plus standard AM. Has inputs for tape recorder and phono to expand its versatility. Controls include: function switch; loudness; blend; balance; separate bass and treble for each channel; stereo reverse; equalization; contour; high and low frequency filter switches; tuning; on-off pushbutton. Also has tuning meter, stereo headphone jack, stereo multiplex indicator.

FM SECTION: incorporates three IF stages and gated-beam limiter. AFC circuit prevents drift. **Sensitivity:** 3.0 μ V for 20 db quieting. **Distortion:** less than 0.1% at 100% modulation; **Hum:** 60 db down. **AM SECTION:** RF amplifier, wideband IF stage, AVC, built-in antenna. **AMPLIFIER SECTION:** features high-power output with virtually non-existent distortion, excellent low-frequency response. **Power Output:** 35 watts per channel (IHFM). **Response:** ± 1 db, 12-70,000 cps at 1 watt. **Hum and Noise:** 85 db below rated output. **Output Impedances:** 4, 8 and 16 ohms. 6 1/4" x 16 1/2" x 13 1/2". Less case, below. For 110-120 v., 50-60 cycle AC. Wt. 43 lbs.

72 SU 580. \$16 Monthly. **339.95**

72 SX 160. CX80 Gray Metal Case. Shpg. wt. 9 lbs. **12.95**

72 SK 169. WW80 Walnut Case. Shpg. wt. 13 lbs. **29.95**



WRITE TO ALLIED FOR BIG SYSTEM SAVINGS

systems on these pages are specially matched for best performance. However, you can select a system with components of your own choice, or add

a tuner to your system. Send a list of components you choose to Allied's Hi-Fi Department Manager. You'll promptly receive a \$5-saving price quotation.





Superbly-Engineered "Award Series" Stereo Tuners

T-300X STEREO MULTIPLEX FM-AM TUNER

Less Case

\$149.95

\$8 monthly

- 0.95 μ v Sensitivity on FM
- AFC "Locks In" FM Stations
- Wideband Discriminator
- Attractive Brushed Gold Styling

A superb choice for low-cost systems. FM section has built-in multiplex circuit that provides excellent channel separation, wide-band discriminator, 4 IF stages. AFC "locks in" FM stations, eliminates drift. Sensitivity: 0.95 μ v for 20 db of quieting; 3.2 μ v IHFM. Response: ± 1 db, 10-25,000 cps. AM section has high selectivity and image rejection; ferrite loop antenna. Controls: Tuning; On-Off; AFC; Multiplex Off-On; Selector (AM-FM); FM stereo Noise Filter. AC outlet. 5 $\frac{1}{2}$ "x15 $\frac{1}{4}$ "x11 $\frac{1}{2}$ ". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 28 lbs.

72 SU 137. \$8 Monthly..... **149.95**

72 SX 126. CX-50 Gray Metal Case. 9 lbs..... **12.95**

72 SX 127. WW-50 Wood Case. Walnut veneer. 13 lbs..... **29.95**

F-500X STEREO MULTIPLEX FM TUNER

Less Case

\$179.95

\$9 monthly

- Illuminated Meter for Accurate Tuning
- Indicator Lights Show Mode of Operation
- Convenient Pushbutton On-Off Switch
- Distant-Local Range Switch

Highly sensitive and distortion-free. Offers everything a discriminating listener desires. Has built-in multiplex for superior FM reception; twin tuning gangs, image-rejecting RF stage, band discriminator. Indicator lights show mode of operation—FM Multiplex. Distant-local switch prevents overloading. Front panel. Sensitivity: 3 μ v IHFM. Response: ± 1 db, 10-52,000 cps. Distortion: less than 0.1% at 100% modulation. Front Panel On-Off; FM Multiplex; Interchannel Muting Defeat; AFC. Tuning. Size, 5 $\frac{1}{2}$ "x15 $\frac{1}{4}$ "x12". Less case, below. For 110-120 v. cycle AC. Shpg. wt., 28 lbs.

72 SU 157. \$9 Monthly..... **179.95**

72 SX 126. CX-50 Gray Metal Case. 9 lbs..... **12.95**

72 SX 127. WW-50 Wood Case. Walnut veneer. 13 lbs..... **29.95**

"AWARD SERIES" FACTORY-WIRED ALL-TRANSISTOR STEREO COMPONENTS



Use solid-state all-transistor circuitry. Sound is wonderfully clean and pure. Heat is virtually eliminated. You get top reliability, freedom from microphonics, instant operation.



A-1000T STEREO AMPLIFIER

Powerful 70-watt IHFM output and superb, transparently smooth sound. Uses 28 transistors and 6 diodes. Audio transformers are eliminated to achieve flawless reproduction. Has 6 pairs of inputs; center-channel, tape and headphone outputs. Separate bass and treble controls for each channel. Convenient push-button input selector. Stereo-mono blend control augmented by indicator lights. Response: $\pm \frac{1}{2}$ db, 10-100,000 cps. Distortion: below 0.5% at 70 watts. Hum and Noise: 90 db down. 3 $\frac{1}{2}$ "x14 $\frac{1}{8}$ "x8 $\frac{3}{8}$ ". Imp. 4, 8, 16 ohms. Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 28 lbs.

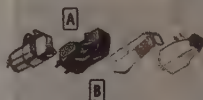
72 SU 185-D. \$17 Monthly..... **369.95**

72 SU 200. Wood Case. For above. Walnut finish. Shpg. wt., 6 lbs..... **19.95**

Deluxe Stereo Systems



as low as **\$495.45**



ALTERNATE SPEAKERS



F-1000T STEREO FM TUNER

Provides superb FM and stereo FM reception. Uses 18 transistors and 8 diodes for optimum performance. Has stereo input; automatically switches to stereo when a multiplex signal is received. Pre-D'Arsonval tuning meter; three-range selector, interchannel muting, defeat switch, AFC. Hideaway door frequently used front-panel controls. Sensitivity: 2.0 μ v IHFM. Frequency Response: $\pm \frac{1}{2}$ db, 5-53,000 cps. Signal-to-Noise Ratio: 60 db. Distortion: below 0.1%. Size, 5 $\frac{1}{2}$ "x14 $\frac{1}{8}$ "x8 $\frac{3}{8}$ ". Less case, below. For 110-120 v. cycle AC. 23 lbs.

72 SU 199-D. \$13 Monthly..... **239.95**

72 SU 200. Wood Case. For Above. Walnut finish. Shpg. wt., 6 lbs..... **19.95**

DELUXE STEREO HOME MUSIC SYSTEMS-FEATUREING "AWARD SERIES" TRANSISTORIZED COMPONENTS

SHELF PHONO SYSTEM-Save Up To \$109.50. Reproduces sound with fidelity to delight even the most critical musician. Includes: Harman-Kardon Model A-1000T 70-Watt Transistor Stereo Amplifier; (A) Garrard Type "A" 4-Speed Automatic Turntable on Walnut Base; (B) choice of any one of four stereo cartridges—Empire 880, Shure M3D, Shure M99/A "Gard-A-Matic", Pickering U38AT; plus (C) Two Knight KN-2300 3-Way Speaker Systems in Walnut. Plus all connecting cables. Less amplifier case. Express. 142 lbs.

21 HF 187-D. Specify Cartridge. **\$24 Monthly..... 568.50**

21 HF 188-D. Save Up To \$182.95. Above, plus Harman-Kardon F-1000T Tuner (less case). 165 lbs. Specify Cartridge. Express only. **\$32 Monthly..... 795.00**

CUSTOM PHONO SYSTEM-Save Up To \$98.65. Same as above, plus (D) Two Knight KN-612HC 3-Way 1" Speakers, and Garrard "A" Changer less base. Less amplifier case. Express. 116 lbs.

21 HF 189-D. Specify Cartridge. **\$21 Monthly..... 495.45**

21 HF 190-D. Save Up To \$145.05. Above, plus Harman-Kardon F-1000T Tuner (less case). Via express. 120 lbs. Specify Cartridge. **\$29 Monthly..... 644.50**

73 RX 096C. Garrard Changer Base. Specify mahogany, black or oiled walnut finish. Shpg. wt., 5 $\frac{1}{2}$ lbs..... **19.95**

73 RX 099. Unfinished Changer Mounting Board. 2 $\frac{1}{2}$ lbs..... **9.95**

ENJOYABLE "AWARD SERIES" KITS

You'll like the gratifying experience of building a high-fidelity instrument yourself. H-K's advanced techniques insure that your finished kit will be identical to a factory-assembled unit. Modular construction simplifies assembly. "Tool Box" packaging aids parts identification. "Read and See" instructions guide your every move.

A-50K in Optional Case

MODEL A-50K 50-WATT STEREO AMPLIFIER KIT

Professional features at moderate cost in an easy-to-build kit. IHFM music power output, 15 watts per channel. Matches F-50XK 50-Watt FM Tuner Kit, below. Features special variable output transformers for flawless response. Blend light indicates degree of channel separation—works with stereo control. Jack on front panel silences speakers when stereo headphones are plugged in. Separate bass and treble controls for each channel; pushbutton on-off switch. Response: ± 1 db, 12-70,000 cps at 100 Hz. Distortion: below 0.5% at 50 watts. Controls: Speaker Reverse; Tape Monitor; Lo-Cut; Contour; Stereo Reverse; Balance; 2—Bass; 2—Treble; Balance; Loudness; Function Selector. Tubes: 355; 1—12AU7; 4—12AX7/ECC83. Outputs: 4, 8, 16 ohms; center channel. $57/61 \times 15/4 \times 12$ " (excluding knobs). Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

J 120. \$6 Monthly.....119.95



A



B

Deluxe Phono Systems Featuring A-50K



C

SHELF PHONO SYSTEM—Save up to \$40.70. Dazzling stereo, full flexibility and outstanding economy make this a winning combination. System includes: Harman-Kardon Model A-50K 50-Watt Stereo Amplifier Kit; (A) Garrard Type "A" 4-Speed Automatic Turntable on Walnut Base; (B) your choice of any one of three cartridges—Empire 880, Shure M3D, Pickering U38AT; (C) Two Knight KN-2250K Thin-Line 3-Way Speaker System Kits in Walnut. Plus all cables. KN-2250K Speaker Systems have 12" woofer, 6" mid-range and compression

tweeter for wide-range response. Amplifier less case, below. Shpg. wt., 134 lbs. Shipped express. \$15 Monthly.

21 HF 191. Specify Cartridge.....299.50

CUSTOM PHONO SYSTEM—Save Up To \$40.25. Same as above, but with (D) Two Knight KN-800HC Deluxe 12" 3-Way Hi-Fi Speakers in place of KN-2250K Speaker Systems; Garrard Type "A" Changer less Case. Amplifier less case, below. 80 lbs. Express. \$13 Monthly.

21 HF 192. Specify Cartridge.....256.95

as low as **\$256.95** Save Up To **\$40.70**

ALTERNATE SPEAKERS



D



F-50XK Stereo FM Tuner Kit in Optional Case

30-Watt Stereo Music Systems



F

FA-30XK Receiver



ALTERNATE SPEAKERS



I

A-30K 30-Watt Stereo Amplifier in Optional Case

A-30K 30-Watt Stereo Amplifier in Optional Case

FA-30XK 30-WATT STEREO FM RECEIVER KIT. Sensitive and distortion-free, has band discriminator; AFC with defeat; stereo indicator light. Frequency wired and aligned front end. Sensitivity: 2.8 μ V IHFM. Response: ± 1 db, 10-52,000 cps. Distortion: below 0.1%. Brushed gold panel. $57/61 \times 15/4 \times 12$ ". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

J 121. \$7 Monthly.....129.95

A-30K 30-WATT STEREO AMPLIFIER KIT. IHFM output of 15 watts per channel. Has continuously variable balance and blend controls. Separate bass and treble controls, push-button on-off switch. Response: ± 1 db, 15-70,000 cps. Distortion: below 1%. Brushed gold panel. 4, 8, 16-ohm outputs. $57/61 \times 15/4 \times 11 1/2$ ". Less case, below. For 110-120 v., cycle AC. 28 lbs.

J 110. \$5 Monthly.....79.95

SHELF SYSTEM—Save Up To \$37.70. Includes: H-K A-30K Amplifier (less case); (A) Garrard "A" on Walnut Base; (F) choice of three 880, Shure M3D or Pickering U38AT Cartridge; (G) Two Knight KN-2250K Speaker System Kits; cables. 127 lbs. Express. \$13 Monthly.

21 HF 193. Specify Cartridge. \$14 Monthly.....263.50

ES. For A-50K, A-30K, and F-50XK Kits.

J 126. CX-50 Gray Metal Case. Wt., 9 lbs.....12.95

J 127. WW-50 Wood Case. Walnut. Wt., 13 lbs.....29.95

FA-30XK 30-WATT STEREO FM RECEIVER KIT. FM section has multiplex circuit with indicator light; pre-wired and factory-aligned front end. Amplifier section has blend, balance, loudness, ganged tone controls. Tape head inputs, recorder outputs. FM Sensitivity: 3.5 μ V IHFM. ± 1 db, 15-70,000 cps. 13 tubes, 2 diodes, 2 silicon rectifiers. 4, 8, 16-ohm outputs. $57/61 \times 15/4 \times 11 1/2$ ". Less case, below. For 110-125 v., 60 cycle AC. 38 lbs.

J 120. \$41. \$9 Monthly.....169.95

22 SX 160. Gray Metal Case. Shpg. wt., 9 lbs.....12.95

22 SX 169. Wood Case. In walnut. Shpg. wt., 13 lbs.....29.95

SHELF STEREO FM/PHONO SYSTEM—Save up to \$46.70. Includes: Harman-Kardon FA-30XK 30-Watt Stereo FM Receiver Kit; (E) Knight KN-990 4-Speed Automatic Turntable on Walnut Base; (F) choice of any one of three stereo cartridges—Empire 880, Shure M3D, Pickering U38AT; (G) Two Knight KN-2250K Thin-Line 3-Way Speaker System Kits in Walnut. Plus all cables. KN-990 handles records gently and efficiently. KN-2250Ks have 12" woofer, 6" mid-range and compression tweeter. 127 lbs. Express.

21 HF 194. Specify Cartridge. \$16 Monthly.....314.95

CUSTOM FM/PHONO SYSTEM.—Save up to \$41.70. Same as above system, but with Two Knight KN-830 12" 3-Way Hi-Fi Speakers in place of KN-2250K Speaker System Kits; Knight KN-990 Automatic Turntable less base. Shpg. wt., 80 lbs. Express.

21 HF 195. Specify Cartridge. \$13 Monthly.....249.95



NEW MODEL 2536K "CLASSIC SERIES" 36-WATT STEREO FM RECEIVER KIT

Deluxe kit offers simple printed-circuit assembly. FM section features factory-assembled front-end, 4-stage IF strip plus ratio detector. Also includes precision rotary tuning dial; bar-type tuning eye that can be switched to indicate stereo broadcasts. IHFM Sensitivity: $3\mu\text{V}$; $1.5\mu\text{V}$ for 20 db quieting. Amplifier provides 18 watts-per-channel IHFM output. Offers dual concentric bass and treble controls; blend, balance and loudness controls; tape monitor inputs; recorder outputs. Overall Response: $\pm 1\text{ db}$, 15-40,000 cps. Harmonic Distortion: below 0.6% at 20 watts. Hum and Noise: better than -65 db. Inputs: Mag. Phono, Tape, Monitor. Outputs: 8 and 16 ohms per channel. 18 tubes plus rectifier. Brushed aluminum and gold panel. $5\frac{1}{2} \times 15\frac{1}{2} \times 5\frac{1}{2}$ ". Less case, below. For 110-120 v., 60 cycle AC. Shpg. wt., 28 lbs.

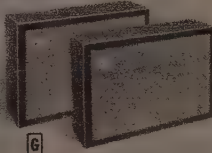
72 SU 600. 58 Monthly.....	154.95
72 SU 601. Above, factory wired and tested. \$11 Monthly.....	209.95
72 SU 602. Metal Case. Shpg. wt., 8 lbs.....	7.50
72 SU 603. Walnut Wood Case. Shpg. wt., 10 lbs.....	19.95



STEREO SYSTEMS
FEATURING 2510
"CLASSIC"
as low as **\$199.95**
\$10 Monthly



Optional
Changer



2510 ASSEMBLED "CLASSIC" STEREO SYSTEMS

FM/PHONO SYSTEM—Save \$18.85. Completely assembled home music system at a low price. System Includes: (E) Eico Model 2510 10-Watt Stereo FM Receiver; (G) Two Eico Model HFS-10 2-Way Slim-Line Speaker Systems in Walnut; (F) Admiral Ensign 785F 4-Speed Record Changer with Floating Ceramic Cartridge and Walnut Base. Plus all cables. Eico 2510 Receiver is a sensitive stereo FM tuner and 10-watt (IHFM) stereo amplifier combined. Has rotary FM tuning dial with illuminated readout; inputs for ceramic phono and tape; bar-type tuning eye that also indicates stereo programs; tone and loudness controls. Provides $3\mu\text{V}$ IHFM FM sensitivity and $\pm 1\text{ db}$, 20-15,000 cps response. Only $5\frac{1}{2} \times 15\frac{1}{2} \times 12"$. Eico speakers are only $12 \times 18 \times 1\frac{1}{4}"$, employ a $6\frac{1}{2}"$ woofer and a 2" tweeter for excellent sound. Ensign changer has a turntable floating cartridge that retracts if tone arm is accidentally dropped or moved across a record. Receiver less case, below. Receiver for 110-120 v., 60 cycle AC. Shipped express. 60 lbs.

21 HF 319. \$11 Monthly.....	205.95
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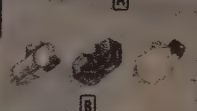
FM ONLY SYSTEM. Same as above, but less Admiral Changer and base. Shpg. wt., 45 lbs.

72 SU 604-2. \$10 Monthly.....	199.95
72 SU 605. TPA-1 Phono Preamp. Permits using 2510 with magnetic stereo cartridges. For 110-120 v. AC. 6 lbs.....	34.95
72 SX 606. Metal Case For 2510 Receiver. 8 lbs.....	7.50
72 SX 607. Walnut Wood Case For 2510 Receiver. 10 lbs.....	19.95

Hi-Fi Component Kits



as low as
\$287.50
\$15 monthly
Save
Up To **\$46.35**



ALTERNATE
SPEAKERS

FM/PHONO SYSTEMS FEATURING 2536K KIT

SHELF SYSTEM—Save Up To \$46.35. Get thrilling stereo from your records or FM. System includes: Eico Model 2536K 36-Watt Stereo FM Receiver Kit; (A) Garrard Type "A" 4-Speed Automatic Turntable on Walnut Base; (B) choice of any one of three stereo cartridges—Empire 880, Shure M3D, Pickering U38AT; and (C) Two Knight KN-2250K Thin-Line 3-Way Speaker System Kits in Walnut. Plus all cables. Knight KN-2250K's have 35-19,000 cps response. Receiver less case, at left. Shipped express only. 133 lbs.

21 HF 318. Specify Cartridge. \$16 Monthly.....	329.95
CUSTOM SYSTEM—Save Up To \$44.80. As above, with (D) Two Knight KN-800HC 12" 3-Way Speakers in place of KN-2250K Kits Garrard "A" less base, below. Shipped express. 85 lbs.	287.50
73 RX 056C. Base for Garrard Type "A". Mahogany, lined oak or walnut finish. Shpg. wt., $5\frac{1}{2}$ lbs. Specify Finish.....	3.95
73 RX 059. Unfinished Changer Mounting Board. $2\frac{1}{2}$ lbs.....	1.50



Model 2716 "Classic"
18-Watt Monophonic
FM Receiver Shown
in Optional Case

Eico Model
HF-81K 28-Watt Stereo
Amplifier Kit Supplied
With Metal Case



ASSEMBLED "CLASSIC" 18-WATT FM RECEIVER

MODEL 2716. For offices, stores, restaurants, homes. Factory-wired combines FM tuner and 18-watt monophonic amplifier, with mike preamp and relay for paging or other P.A. uses. With press-to-talk mike of 4 mv or greater output, allows silencing music while paging FM has rotary tuning dial, bar-type tuning eye, $1.5\mu\text{V}$ IHFM sensitivity. Amplifier has loudness, bass-boost and treble cut controls ceramic phono and tape inputs. Response: $\pm 1\text{ db}$, 15-40,000 cps. Distortion: below 0.6% at 10 watts. Hum and Noise: -80 db. Outputs: 8 and 16 ohms, 25 volts. Std. mike connector, 10 tubes, rectifier. $5\frac{1}{2} \times 15\frac{1}{2} \times 11\frac{1}{2}"$. Less case, below. For 110-120 v., 60 cycle AC. 23 lbs.

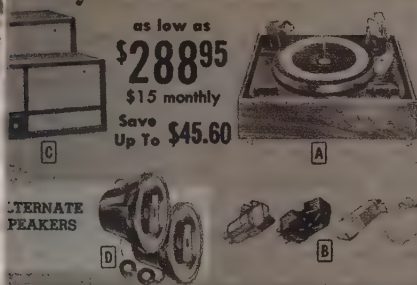
72 SU 608. \$8 Monthly.....	149.95
72 SU 615. Model 2715. Above, less paging feature. 23 lbs.....	129.95
72 SX 606. Metal Case. 8 lbs.....	7.50
72 SX 607. Walnut Wood Case. 10 lbs.....	19.95

HF-81K 28-WATT STEREO AMPLIFIER KIT

Inputs for mag. phono, tape head, mike, AM tuner, FM tuner and stereo FM tuner or adapter. Ganged level, dual concentric bass and treble controls; blend control; function, input selectors. $\pm 0.5\text{ db}$, 10-100,000 cps at 2 watts. Harmonic Distortion: below 1%, 30-10,000 cps at 16 watts. $4\frac{3}{4} \times 15 \times 10\frac{1}{4}"$. With metal case; wood case optional, below. For 110-120 v., 60 cycle AC. 27 lbs.

72 SU 323. \$5 Monthly.....	69.95
72 SU 324. Model HF-81. Above, wired. \$6 Monthly.....	109.95
72 SX 325. Wood Case. In walnut. Shpg. wt., 9 lbs.....	13.95

and Systems at Low Cost



as low as
\$288.95
\$15 monthly
Save
Up To **\$45.60**

ALTERNATE
SPEAKERS

70-WATT SYSTEMS FEATURING ST-70K KIT

LF PHONO SYSTEM—Save Up To \$45.60. Fills your room with all quality stereo high-fidelity sound. System includes: Eico Model ST-70K 70-Watt Stereo Amplifier Kit with Metal Case; (A) Garrard Type "A" 4-Speed Automatic Turntable on Walnut Base; your choice of any one of four stereo cartridges—Empire 880, or M3D, Shure M-99/A "Gard-A-Matic"; or Pickering U38AT; Two Knight KN-2300 3-Way Shelf Speaker Systems in Oiled Walnut. Plus all cables. Shipped express. 192 lbs.

HF 125. Specify Cartridge. \$17 Monthly.....**362.50**

STOM SYSTEM—Save \$35.15. As above, but with (D) Two Knight KN-612HC 12" 3-Way Speakers in place of Knight KN-2300; (A) Garrard "A" less base, below. Shpg. wt., 130 lbs.

HF 123. Specify Cartridge. \$15 Monthly.....**288.95**

AX 056C. Base For Garrard Type "A". Mahogany, lined oak or nut finish. Shpg. wt., 5½ lbs. Specify Finish.....**3.90**
AX 059. Unfinished Changer Mounting Board. 2½ lbs.....**1.50**



"CLASSIC SERIES" STEREO AMPLIFIER KITS

MODEL 2036K. 36-watt IHFM output. Dual concentric bass and treble controls; balance, loudness and blend controls. Switch selects either of two pairs of speaker systems or stereo headphone jack. Magnetic phono, tape, tuner, tape monitor and auxiliary inputs; order output. Response: ±1 db, 15-40,000 cps. Harmonic Distortion: 0.6% at 20 watts. Hum and Noise: better than -65 db. 10 tubes, rectifier. 5% $\times$ 15% $\times$ 11½". Less case, below. For 110-120 60 cycle AC. 24 lbs.

SU 609. \$5 Monthly.....**79.95**

SU 611. \$5 Monthly.....**79.95**

SU 610. Model 2036. Above, wired. \$6 Monthly.....**109.95**

MODEL 2050K. Same controls and features as 2036K, above; but 50-watt IHFM output. Response: ±1 db, 10-40,000 cps. Harmonic Distortion: 0.5% at 34 watts. 10 tubes, rectifier. 5% $\times$ 15% $\times$ 11½". For 110-120 v., 60 cycle AC. Less case, below. 28 lbs.

SU 611. \$5 Monthly.....**92.50**

SU 612. Model 2050. Above, wired. \$7 Monthly.....**129.95**

STEREO PHONO SYSTEM FEATURING 2036K KIT

Save up to \$37.80. System includes: Eico Model 2036K 36-Watt Stereo Amplifier Kit; (A) Garrard Type "A" 4-Speed Automatic Turntable on Walnut Base; your choice of any one of three stereo cartridges—Empire 880, Shure M3D, Pickering U38AT (Fig. B on preceding page); Two Knight KN-2250K Thin-Line 3-Way Speaker System Kits in Walnut (Fig. C on preceding page). Plus all cables. Specify less case, below. Shipped express. 129 lbs.

HF 320. Specify Cartridge. \$14 Monthly.....**263.50**

EICO "CLASSIC SERIES" CASES

Models 2036, 2036K, 2050, 2050K, above.

SX 606. E-11 Metal Case. Shpg. wt., 8 lbs.....**7.50**

SX 607. WE-72 Wood Case. Walnut finish. 10 lbs.....**19.95**



ST-70K 70-WATT STEREO AMPLIFIER KIT

Moderately-priced, conservatively-rated. Clutch-type level, bass and treble controls for each channel; balance control; balance check switch; tape monitor and equalization switches; rumble and scratch filters; volume/loudness switch. Stereo inputs with selector switch for tape, tape head, magnetic cartridge, ceramic phono, FM-AM, and stereo FM tuners. Response: ±1 db, 9-60,000 cps. Harmonic Distortion: 0.5% at 70 watts. IM Distortion: 1% at 70 watts. Hum and Noise: better than 50 db at 70 watts. Output Impedances: 4, 8, 16 ohms. 11 tubes, rectifier. Gray, gold and white styling. 5x15½x16". With metal case. For 110-120 v., 60 cycle AC. Shpg. wt., 47 lbs.

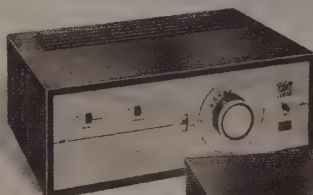
72 SU 307. \$8 Monthly.....**99.95**

72 SU 308. Model ST-70. Above, wired. \$8 Monthly.....**149.95**

ST-40K. 40-watt version of above offers full controls and inputs. Response: ±1 db, 12-25,000 cps. Harmonic Distortion: 0.5% at 40 watts. Intermodulation: 1% at 40 watts. 5x15½x14". For 110-120 v., 60 cycle AC. Shpg. wt., 38 lbs.

72 SU 305. \$5 Monthly.....**79.95**

72 SU 306. ST-40. Above, wired. \$7 Monthly.....**129.95**



Eico Model
ST-97 Stereo
Multiplex FM
Tuner

Model 2200 "Classic
Series" Stereo FM
Tuner Shown In
Optional Case



2200K STEREO FM TUNER KIT "CLASSIC"

Sparkling reception of stereo and conventional FM broadcasts. Offers simplified construction, thanks to pre-wired and pre-aligned front-end, 4 IF's plus ratio detector. Needs no adjustments or alignment. Rotary tuning with illuminated readout, bar-type tuning eye that also indicates stereo FM. Sensitivity: 1.5 µV IHFM. Response: ±1 db, 20-15,000 cps. Harmonic Distortion: 0.6% IHFM. Channel Separation: 30 db. Distortion, 0.6% IHFM. Cathode follower outputs permit long cable runs to amplifier. 10 tubes, rectifier. 5% $\times$ 15% $\times$ 11½". Less case, below. For 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs.

72 SU 613. \$5 Monthly.....**92.50**

72 SU 614. Model 2200. Above, wired. \$6 Monthly.....**119.95**

72 SX 606. E-11 Metal Case. Shpg. wt., 8 lbs.....**7.50**

72 SX 607. WE-72 Wood Case. In walnut. 10 lbs.....**19.95**

MODEL ST-97K STEREO FM TUNER KIT

Provides excellent stereo FM reception. Employs factory-aligned front-end, IF strip and wideband ratio detector on pre-wired circuit board. Has 15-kc interference filters, stereo indicator light, AFC with defeat. Sensitivity: 3 µV IHFM. Response: ±1 db, 20-15,000 cps. Distortion: 0.6% IHFM. Cathode-follower stereo outputs. 5% $\times$ 15% $\times$ 11½". With metal case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

72 SU 309. \$5 Monthly.....**99.95**

72 SU 310. Model ST-97. Above, wired. \$8 Monthly.....**149.95**



ST-96K \$89⁹⁵ with case



HFT-92K \$59⁹⁵ with case



HFT-90A-K \$44⁹⁵ less case

ST-84K



HF-85K

ST-84K STEREO PREAMPLIFIER KIT

Moderately priced, yet offers a host of controls and inputs. Employs concentric tone and level controls, tape equalization, rumble and scratch filters. Convenient tape-monitoring feature for outstanding playback results. Response: ± 0.3 db, 5-25,000 cps. Harmonic Distortion: 0.06%. Intermodulation Distortion: 0.04%. Hum and Noise: better than 65 db down. Handsome metal case, $5\frac{1}{2} \times 15\frac{1}{2} \times 8\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

72 SX 364. \$5 Monthly. **59.95**

72 SX 373. Model ST-84. As above, but wired. \$5 Monthly. **89.95**

MODEL HF-86K 28-WATT STEREO BASIC AMPLIFIER KIT

(Not illus.) Output Power: 14 watts per channel. Response: ± 0.5 db, 10-100,000 cps. at 2 watts output. Distortion: less than 2% at rated output; Hum and Noise: 90 db down. Output Impedances: 4, 8, 16 and 32

HF-85K STEREO PREAMPLIFIER KIT

Low priced, but includes virtually every control and switching facility. Features tape head and mike inputs; tape and phono equalization; clutch-type tone and level controls. Response: ± 0.3 db, 5-25,000 cps. Harmonic Distortion: 0.1%. Intermodulation Distortion: 0.07%. Hum: -60 db. Metal case, $3\frac{3}{4} \times 12 \times 8\frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

72 SX 376. \$5 Monthly. **39.95**

72 SX 377. Model HF-85. As above, but wired. \$5 Monthly. **64.95**

72 SX 350. Walnut Case. For HF-85K and HF-85. Shpg. wt., 7 lbs. **12.50**

72 SX 392. \$5 Monthly. **43.95**

72 SX 393. HF-86. As above, wired. **74.95**

72 SX 498. Metal Case. Wt., 7 lbs. **3.95**

MODEL ST-96K FM-AM TUNER KIT

Value-packed tuner with separate FM and AM sections. Ideal matched to MX-99K Multiplex Adapter Kit, below. "Eye-tronic" tuning eye; indicators and RF-IF stages are pre-wired. FM section 1 shielded front end, AFC with defeat, broadband ratio detector. FM Sensitivity: 1.5 μ v for 20 db quieting, $5 \times 17\frac{1}{2} \times 14$ ". With metal case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 27 lbs.

72 SU 311. \$5 Monthly. **89.95**

72 SU 320. Model ST-96. As above, but wired. **129.95**

HFT-92K MODERATE-COST FM-AM TUNER KIT

An excellent value. Features temperature-compensated components, pre-wired, pre-aligned front end for easy assembly. "Eye-tronic" tuning eye; multiplex jack (for MX-99K Adapter Kit below). Sensitivity: 1.5 μ v for 20 db quieting, $3\frac{3}{4} \times 12 \times 8\frac{1}{4}$ ". With metal case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs.

72 SX 335. \$5 Monthly. **59.95**

72 SU 336. Model HFT-92. As above, but wired. **64.95**

72 SX 350. Walnut Cabinet. For either of above. Wt., 7 lbs. **12.50**

HFT-90A-K LOW-COST FM TUNER KIT

An outstanding buy, the HFT-90A-K features factory wired, pre-aligned front end for extra convenience of assembly. "Eye-tronic" tuning indicator; temperature-compensated components. Performance matched to MX-99K Multiplex Adapter Kit, below, for stereo reception. Sensitivity: 1.5 μ v for 20 db quieting, $3\frac{3}{4} \times 12 \times 8\frac{1}{4}$ ". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

72 SX 620. \$5 Monthly. **44.95**

72 SU 621. Model HFT-90A. As above, wired. **69.95**

72 SX 363. Metal Case. For either of above. Wt., 7 lbs. **3.95**

HFT-94K ECONOMY-PRICED AM TUNER KIT

Same appearance and size as HFT-92K. Choice of wide and narrow bandpass; tuned RF stage; "Eye-tronic" tuning indicator; white filter. With metal case. For 110-120 v., 50-60 cycle AC. 15 lbs.

72 SU 351. \$5 Monthly. **39.95**

72 SU 360. Model HFT-94. As above, but wired. **65.95**

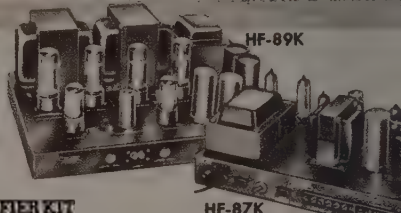
72 SX 350. Walnut Cabinet. For either of above. Wt., 7 lbs. **12.50**

MX-99K MULTIPLEX ADAPTER KIT

Plugs into any Eico FM tuner with multiplex jack. Size, $3\frac{3}{4} \times 9\frac{1}{2} \times 6\frac{3}{4}$ ". Less case, below. For 115 v. AC. Wt., 10 lbs.

72 SX 321. \$5 Monthly. **39.95**

72 SX 322. Metal Case. Wt., 6 lbs. **2.95**



HF-87K

100 AND 70-WATT STEREO BASIC AMPLIFIER KIT

MODEL HF-89K. Output: 50 watts per channel. Response: ± 0.5 db, 5-100,000 cps. Distortion: less than 1% at full power. Hum better than 90 db down. Imp.: 4, 8, 16 ohms $6 \times 15 \times 11$ ". Less case, below. For 110-120 v., 50-60 cycle AC. 43 lbs.

72 SU 378. \$5 Monthly. **99.95**

72 SU 379. HF-89. Above, wired. **139.95**

MODEL HF-87K. Output: 35 watts per channel. Response: ± 0.5 db, 5-100,000 cps. Distortion: less than 1% at full power. Imp.: 8, 16, 32 ohms. $6 \times 15 \times 11$ ". Less case, below. For 110-120 v., 60 cycle AC. 35 lbs.

72 SU 380. \$5 Monthly. **74.95**

72 SU 390. HF-87. Above, wired. **114.95**

72 SX 391. Metal Case. For all basic amplifiers above. Shpg. wt., 7 lbs. **4.95**

Professional-Quality Hi-Fi

McIntosh



MC75
\$229.50
\$12 monthly

MC240 \$288.00 \$15 monthly



NEW MX110 \$399.00 less case

MC240 80-WATT STEREO BASIC AMPLIFIER

Professional standards... you'll realize the dramatic difference in music reproduction when you listen to this instrument. Stereo/mono switch; balance; separate gain controls for each channel and for monophonic operation. Power: 80 watts continuous (watts per channel); Response: ± 0 , -0.5 db, 16-60,000 cps. Distortion: less than 0.3% at rated output, 20-20,000 cps. Hum and Noise: -90 db. Output Impedances: 4, 8 and 16 ohms. $8 \times 10 \frac{3}{4} \times 17 \frac{1}{4}$ " in. chrome and black. For 105-130 v., 50-60 cycle AC. Shpg. 42 lbs. Shipped by Express.
J 291. \$15 Monthly.....288.00

MC225. As above, but 50-watt power output. Imp.: 4, 8, 16, 20, 60 ohms. $7 \times 9 \frac{1}{2} \times 14 \frac{1}{2}$ ". 42 lbs. Shipped express only.
J 290. \$10 Monthly.....198.00

DELUXE MONOPHONIC BASIC AMPLIFIERS

be used in pairs for super-power stereo.

MC75. 75 watts. Same specs as MC225 above. Imp.: 4, 8, 16, 20, 60 ohms. $8 \times 9 \frac{1}{2} \times 16 \frac{3}{4}$ ". 51 lbs. Shipped Express.
J 285. \$12 Monthly.....229.50

MC40. As above, but 40-watt power output. Imp.: 4, 8, 16, 20, 60 ohms. $7 \frac{7}{8} \times 8 \frac{1}{2} \times 13 \frac{3}{4}$ ". Wt., 38 lbs.
J 281. \$8 Monthly.....159.00

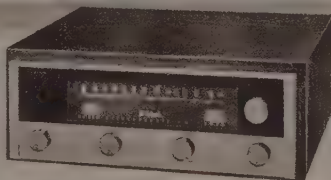


NEW C22 STEREO PREAMPLIFIER

An excellent choice for deluxe home music systems, the C22 stereo preamp controller provides complete command of all audio reproduction. Assures smooth, pleasant sound from any high-quality source and provides precise tonal adjustment to suit your room acoustics and personal taste.

Controls include: input and mode selectors; bass and treble for both channels; equalizer; balance; phase; loudness; high-frequency filter; low-frequency trim; rumble; tape-jack switch; volume/on-off. Response: ± 0.5 db, 20-20,000 cps. Distortion: less than 0.2% at rated output. Hum and Noise: -85 db below rated output. Size, $6 \times 16 \times 13$ ". Less cabinet, below. For 110-130 v., 50-60 cycle AC. Wt., 28 lbs.
J 318. \$14 Monthly.....279.00

CABINET. Oiled walnut. 11 lbs.
J 304. \$5 Monthly.....25.00



MR65B STEREO FM TUNER

Precision-engineered and highly sensitive, this outstanding tuner provides magnificent monophonic FM and stereo multiplex FM. Features cascade RF amplifier with 6DX4 limiter in the first stage. Four IF stages, two tuners. With signal-strength meter, tuning meter, and multiplex indicator. Continuously variable AFC is automatically defeated when tuning dial is moved—permits excellent reception of weaker signals.

Sensitivity: $2.5 \mu\text{v}$ at 100% modulation. Channel Separation: more than 30 db. Response: ± 0.5 db, 20-20,000 cps. Distortion: less than 0.5% at 100% modulation. Hum: -70 db at 100% modulation. $5 \frac{1}{2} \times 15 \frac{1}{2} \times 12 \frac{3}{4}$ ". Less cabinet, below. For 110-120 v., 50-60 cycle AC. Wt., 32 lbs.
J 320. \$16 Monthly.....329.00

CABINET. Oiled walnut. 11 lbs.
J 304. \$5 Monthly.....25.00



NEW MR67 STEREO FM TUNER

Features Multipath indicator and "Panloc" custom mounting. Multipath indicator shows when distortion is being caused by receiving both a direct signal and one or more reflected signals. (Your antenna can then be oriented to eliminate this distortion.) "Panloc" gives absolute ease of installation. Slide tuner onto shelf and lock-in by depressing front-panel buttons.

MR67 has navigator in first RF stage. Four IF stages, two limiters. Tuning and multiplex indicators. Sensitivity: exceeds $2.5 \mu\text{v}$. Channel Separation: better than 30 db. Response: ± 0.5 db, 20-20,000 cps. Distortion: less than 0.5% at 100% mod. $5 \frac{1}{2} \times 16 \times 13$ ". Less cabinet, below. For 110-120 v., 50-60 cycle AC. 35 lbs.
J 319. \$15 Monthly.....299.00

CABINET. Oiled walnut. 11 lbs.
J 317. \$5 Monthly.....25.00

Get What You Want Now—Use Your Allied Credit Fund Plan

ALLIED 155

dynakit

PAS-3
Preamp



In Kit Form
\$62⁹⁵
with case



70 WATTS
In Kit Form
\$89⁹⁵
with cover

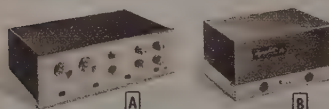
Stereo 70



35 WATTS
In Kit Form
\$53⁹⁵
with cover

Stereo 35

SYSTEMS FEATURING PAS-3 and "STEREO 70"



Shelf
System
\$416⁹⁵



CHOICE OF
CARTRIDGE



Custom
System
\$343⁵⁰

SHELF SYSTEM. Save up to \$44.00. System includes: (A) PAS-3 Stereo Preamplifier Kit with Case (described above); (B) "Stereo 70" 70-Watt Basic Amplifier Kit with Cover (described above); (C) Garrard Type "A" Automatic Turntable, Walnut Base; (D) two Knight KN-2300 3-Way Speaker Systems in Oiled Walnut Enclosures; Choice of Cartridge—(E) Empire 880, (F) Shure M3D, (G) Shure M99A, or (H) Pickering U38AT; All Connecting Cables. KN-2300 systems have "brilliance" and "presence" controls. Shpg. wt., 165 lbs. Shipped express.

21 HF 315 D. Specify Cartridge. \$19 Monthly. **416.95**

CUSTOM SYSTEM. Save up to \$33.55. As above, but with (J) two Knight KN-612HC 3-Way Speakers in place of KN-2300 systems and less base for Garrard Type "A". KN-612HC's have 12" woofer cone, whizzer, compression tweeter. 137 lbs. By express.

21 HF 316 D. Specify Cartridge. \$17 Monthly. **343.50**

73 RX 056C. Wood Base for Garrard Type "A." Mahogany, limed oak, or walnut—specify. Shpg. wt., 5½ lbs. **3.90**

73 RX 059. Unfin. Mtg. Board. For Type "A." Wt., 2½ lbs. **1.50**

Hi-Fi Components . .

NEW PAS-3 STEREO PREAMPLIFIER KIT

Precision-engineered stereo preamp with complete control facilities. Ideal for use with the "Stereo 70" or any other high-quality basic amplifier. Offers excellent transient response, instantaneous recovery from overload. All critical circuitry is pre-assembled on two printed-circuit boards—assembly time is reduced to about 8 hours. Features include: "Dyna Blend" for variable channel separation; DC-heated tube filaments; four AC convenience outlets. Controls include: 6-position input selector; mode selector; volume; loudness; balance; separate bass and treble controls for each channel; monitor; scratch filter; on-off switch. **Response:** ± 0.5 db, 10-40,000 cps. **IM Distortion:** less than 0.05% at 2-v. output. **4x13x8".** With charcoal brown textured vinyl case. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 11 lbs.

72 SX 591 D. \$5 Monthly. **62.95**
72 SX 592 D. PAS-3A. Above, factory wired. \$5 Monthly. **98.**

"STEREO 70" 70-WATT BASIC AMPLIFIER KIT

Make this famous high-performance basic amplifier the "heart" of your stereo music system. Enjoy outstanding high-fidelity reproduction—firm, perfectly-defined bass and clean, natural highs. Designed for utmost reliability—matched output tubes are operated at only 65% of capacity, filter capacitors less than 85% rated voltage! Hi-Fi stereo-monophonic selector switch. Use of printed circuitry, detailed step-by-step instructions and pictorial diagrams cut assembly time to about 5 hours. **Power Output:** 35 watts, continuous, per channel. **Response:** ± 0.5 db, 10-40,000 cps. **IM Distortion:** less than 1% full power. **Hum and Noise:** more than 90 db below rated output. **Output Impedances:** 4, 8 and 16 ohms. **6½x9½x13".** Complete with handsome charcoal brown protective cover. For 110-120 v., 50-cycle AC. Wt., 35 lbs.

72 SU 237. \$5 Monthly. **89.95**
72 SU 238. As above, factory wired. \$6 Monthly. **116.**

"STEREO 35" 35-WATT BASIC AMPLIFIER KIT. Superb sound low cost with this new, smaller version of the "Stereo 70." Power 17½ watts, continuous, per channel; **Response:** ± 1 db, 10-40,000 cps; **Hum:** 80 db down. **Output Imp:** 8, 16 ohms. **4x13x5½".** With cover. For 110-120 v., 50-60 cycle AC. Shpg. wt., 19 lbs.

72 SX 593 D. \$5 Monthly. **53.95**
72 SX 594 D. As above, Factory Wired. \$5 Monthly. **71.**



NEW FM-3 STEREO MULTIPLEX FM TUNER KIT

- Offers Excellent Sensitivity, Selectivity and Separation
- "Stereoecator" Lights-Up When Stereo Broadcast is Received
- Simple and Rapid Alignment without Special Test Equipment
- Excellent Spurious-Signal Rejection • Four IF Stages
- Balanced Wideband Discriminator • Planetary-Drive Tuning

For the very first time, Dynakit offers a completely integrated stereo multiplex FM tuner kit. Magnificently engineered to exhibit true natural clarity of reproduction, excellent sensitivity, selectivity, and channel separation. Modest cost makes it attractive to the budget-conscious audio enthusiast. Features Dynakit's exclusive "Stereoecator" Indicator lights-up when a stereo broadcast is received and tuner automatically switches to stereo mode. Automatically switches back to monophonic operation when stereo program ends. Unique alignment procedure enables simple and rapid achievement of peak performance without special test equipment. True laboratory alignment is realized in the home, when assembly is completed. Tuning RF stage and oscillator-mixer use slug-tuned coils for easy alignment of front end. Offer excellent spurious signal rejection and minimize cross-modulation. Balanced wideband discriminator. Four IF stages work as progressive limiters.

Controls include: tuning, with precise planetary dial mechanism; volume; and on-off power switch. **Sensitivity:** 4 μ v (IHF); **Channel Separation:** 30 db. **4x13x8".** With smartly styled case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs.

72 SX 588 D. \$5 Monthly. **98.95**
72 SX 589 D. As above, factory wired. \$8 Monthly. **152.**

it or Assembled



MONOPHONIC COMPONENTS

PAM-1

Mark IV

4-1 MONO PREAMPLIFIER KIT. With printed-circuit board—
assembles in 6 hours. Has controls for all functions, inputs for all
components. Requires PS-1 (below) if used with "Stereo 35" or other
Dynakit amplifiers. **Response:** ± 0.5 db, 10-40,000 cps. **IM**
Distortion: less than 0.05% at 2 v. output. Requires 200 to 400 v. DC
to 4 ma, and 6 v. AC at $\frac{3}{4}$ ampere. $2\frac{3}{4} \times 12 \times 6$ ". With case
erred in baked vinyl. 10 lbs.

3X 246. \$5 Monthly..... **31.45**
3U 247. As above, factory wired. \$5 Monthly..... **53.95**

248. PS-1 Power Supply Kit. Powers one or two PAM-1's. $2 \times 5 \times$
For 110-120 v., 50-60 cycle AC. Wt., 5 lbs..... **11.95**
3 259. As above, factory wired..... **17.95**

RK IV 40-WATT MONO BASIC AMPLIFIER KIT. Perfect for
4-1 or PAS-3 preamps. Assembles in less than 3 hours. **Response:**
5 db, 10-40,000 cps. **IM Distortion:** below 1% at rated output.
Hum and Noise: 90 db down. **Imp.**: 4, 8, 16 ohms. With cover. $6\frac{1}{2} \times 14 \times$
For 110-120 v., 50-60 cycle AC. 23 lbs.

3U 265. \$5 Monthly..... **53.95**
3U 266. As above, factory wired. \$5 Monthly..... **71.95**

3U 267. Mark III 60-Watt Mono Basic Amplifier Kit. **Response:**
5 db, 6-60,000 cps. **IM Distortion:** less than 1% at 60 watts.
Hum and Noise: 90 db down. **Impedances:** 4, 8, 16 ohms. $6\frac{3}{4} \times 9 \times 9$ ". With case.
110-120 v., 50-60 cycle AC. 31 lbs..... **71.95**
3U 268. As above, factory wired. \$5 Monthly..... **89.95**



HIGH-FIDELITY DYNATUNER FM TUNER KITS

High Sensitivity for Fringe Areas • Ultra-Low Distortion
Audio Noise Level is More Than 75 db Below 100% Modulation
Unit Aligns Perfectly Without Use of External Test Equipment
Planetary-Drive Tuning System Eliminates Dial-Cord Stringing
DEL FM-1. Engineered to give you true hi-fi reception, the FM-1
includes all of the most important performance characteristics—
sensitivity for fringe-area use; low noise; imperceptible distort-
ion; and non-critical, drift-free tuning. Printed-circuit design and
simple, functional layout permit construction in 6 hours. Tuning
is used to peak IF stages—no test equipment required—all coils
pre-aligned. Planetary-drive tuning system eliminates dial-cord
stringing—gives smooth, accurate tuning without backlash. **Sensi-**
tivity: 4 μ v (IHFM). Provision for internal stereo multiplex adapter,
model 4x13x8". With handsome case. For 110-120 v., 50-60 cycle
AC. Shpg. wt., 15 lbs.

3X 240. \$5 Monthly..... **71.95**
3U 239. As above, factory wired. \$6 Monthly..... **107.95**

3X 243. Model FMA-2 10-Watt Monophonic Amplifier Kit. Fits
inside FM-1 instead of multiplex unit. Converts FM-1 to receiver.
Response: 5 db, 12-35,000 cps. Shpg. wt., 7 lbs..... **26.95**

DEL FMX-3 MULTIPLEX INTEGRATOR KIT. Fits inside FM-1.
Automatically switches to stereo when multiplex is being received.
Internal Separation: 30 db. 3-hour assembly time. 5 lbs.

3X 244. \$5 Monthly..... **26.95**
3X 245. Model FMX-3 SR "Semi-Kit." Partially wired..... **35.95**



SCA-35 35-WATT STEREO AMPLIFIER KIT

Combines a deluxe stereo preamp, having full control flexi-
bility, with a unique 35-watt stereo power amplifier. The result
is a blend of quality and dependability seldom found at this
moderate price. Ingenious design, employing premium-grade
transformers, achieves exceptional overall performance and
increased stability. New circuit techniques contribute to re-
markably low noise and distortion levels. Heavy-duty etched
circuit construction and accessible, straight forward design
make assembly a pleasure even for the novice.

Controls include: Input selector switch; volume; balance;
ganged bass and treble; stereo-mono switch; loudness com-
pensation switch; filter switch; and on-off power switch. 7 pairs
of inputs accommodate every program source. Rear panel has
dual hum-balance controls; two AC convenience outlets;
headphone output; derived center-channel output; tape output.

Power Output: 17½ watts, continuous, per channel. **Response:**
 ± 0.5 db, 20-20,000 cps. **IM Distortion:** less than 1% at full
power. **Hum and Noise:** 80 db down. **Impedances:** 8 and 16
ohms. $4 \times 13 \times 10$ ". With charcoal brown vinyl-coated case. For
110 120 v., 50-60 cycle AC. Shpg. wt., 23 lbs.

72 SU 590 D. \$5 Monthly..... **89.95**
72 SU 595 D. As above, Factory Wired. \$7 Monthly..... **125.95**

DECORATOR AND CUSTOM STEREO SYSTEMS FEATURING SCA-35 CONTROL AMPLIFIER

DECORATOR SYSTEM. Save up to \$34.27. System includes:
SCA-35 Stereo Control Amplifier Kit with Case (described
above); Garrard Type "A" Turntable with Oiled Walnut Base;
two KN-2250K 3-Way Speaker System Kits with Oiled Walnut
Enclosures; Choice of Cartridge—Empire 880, Shure M3D, or
Pickering U38AT; All Connecting Cables. KN-2250's have 12"
woofer, 6" mid-range, and horn-loaded compression-type
tweeter with level control—all pre-mounted on baffle board.
Speaker kits assemble in just minutes. "Feet" mount on top or
sides for either "highboy" or "lowboy" Use; 35-19,000 cps.
Shpg. wt., 128 lbs. Shipped express.
21 HF 313 D. Specify Cartridge. \$14 Monthly..... **266.95**

CUSTOM SYSTEM. Save up to \$32.35. Above, but with two
KN-800HC Speakers in place of KN-2250 speaker system kits,
and less base for Garrard Type "A." KN-800HC's have 12"
woofer cone, mid-range cone, and compression tweeter with
level control; 20-15,000 cps. 74 lbs. By express.
21 HF 314 D. Specify Cartridge. \$12 Monthly..... **224.95**

73 RX 056C. Wood Base for Garrard type "A." Mahogany,
laminated oak, or walnut—specify. Shpg. wt., 5½ lbs..... **3.90**
73 RX 059. Unfin. Mtg. Board. For Type "A." 2½ lbs..... **1.50**

DYNAKIT BRASS PANELS AND KNOBS

Complete sets offer an elegant way to modernize or customize
earlier model Dynakit preamplifiers and tuners. Luxurious look
matches the quality of Dynakit hi-fi sound. 3 lbs.

72 S 539. PK-40. For All Dynatuners, except FM-3..... **9.95**
72 S 538. PK-30. For PAS-2 Preamplifier..... **13.95**

WRITE TO ALLIED'S HI-FI MANAGER...

for a special price quotation on any component
system of your choice. Or, add a tuner to your
present system—get biggest savings at Allied.



You Always Get More for Your Money at Allied

ALLIED 157

Sherwood

Superior Stereo Component



IT DOES ALL THIS . . .

Serves as 40-watt per-channel stereo amplifier, stereo multiplex FM tuner, and AM tuner—all-in-one. Sherwood's finest music-reproducing instrument!

Less Case **\$369⁵⁰** \$17 monthly

NEW MODEL SHERWOOD S-7700 80-WATT STEREO FM-AM RECEIVER

Loaded with deluxe features, combines a stereo multiplex FM-AM tuner with a powerful 40 watt-per-channel stereo amplifier and a full array of controls—all on a single, compact chassis. Requires only the addition of speakers to complete an outstanding home music system for enjoyment of stereo FM broadcasts. Sensitive AM section has built-in stereo multiplex circuitry, with indicator that lights when you are receiving a stereo broadcast. EMB7 tuning eye and smooth flywheel knob provide easy, accurate tuning. Also: inter-channel hushing; AFC with defeat; wideband gated-beam limiter, balanced ratio detector. Sensitive AM section has loopstick antenna, wide/narrow pass-band switch. Amplifier section has input selector that also operates indicator lights. Ganged bass and treble controls let you

adjust channels separately or simultaneously. Built-in stereo preamps accommodate phono or tape head. Also has tape monitor inputs; compensated loudness control; balance control; speaker phase reverse switch; stereo normal/reverse switch; plus switches for 12 db-per-octave scratch and rumble filters. Size, 4x16½x14". Less case, below. For operation from 110-125 v., 60 cycle AC. Wt., 39 lbs.

72 SU 404. \$17 Monthly. **369.50**

S-8000-III. 80-Watt Stereo FM Receiver. Above, less AM. Zero-center tuning meter; no AFC, tuning eye. Less case, below. Shpg. wt., 37 lbs.

72 SU 405. \$16 Monthly. **319.50**

72 SU 475. Metal Case. Walnut leatherette covering. Shpg. wt., 11 lbs. **9.50**

SPECIFICATIONS

FM SECTION

• IHFM Sensitivity: 0.95 μ v for 20 db of quieting.

Selectivity: 200 kc at —3 db.

Distortion: 0.3% at 100% modulation.

AM SECTION

Sensitivity: 2 μ v for ½ v.

Selectivity: 15 kc or 5 kc.

OVERALL

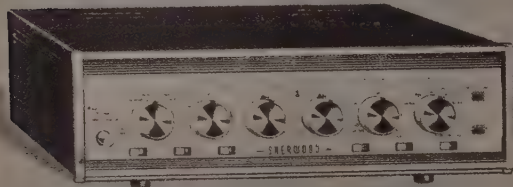
IHFM Output: 40 watts per channel. Response: $\pm$ ½ db, 20-20,000 cps at rated output power.

IM Distortion: 1½% at rated output.

Hum & Noise: better than —63 db.

Inputs: 5 hi-level; 4 lo-level.

Outputs: 4, 8, 16 ohms; recording.



NEW S-5000-II 80-WATT STEREO AMPLIFIER

Less Case

\$199⁵⁰

\$10 monthly

- The Ultimate in Sherwood Amplifiers
- Ample Power to Drive Any Speakers
- Full Complement of Controls and Inputs
- Uses 4 New 7868 "Novar" Output Tubes

Sherwood's finest stereo amplifier, provides 40 watts per channel of distortion-free music power for wonderful stereo sound. Extreme flexibility is provided by a full complement of controls and inputs. Function switch selects five modes of operation—also operates corresponding group of indicator lights. Friction-locked bass and treble controls are independently or simultaneously adjustable. Has five pairs of stereo inputs; separate output tube balance controls. Cathode follower outputs permit 200-ft. leads to stereo recorder. Power Output: 40 watts per channel IHFM (80 watts stereo). Response: $\pm$ ½ db, 20-20,000 cps. Distortion: Harmonic, ½%; IM, 1½% at full output. Hum & Noise: better than —72 db. Controls: Phono Level, Rumble Filter, Scratch Filter and Presence; Selector (Tape Head, Tuner, and Auxiliary); Balance; dual concentric Bass; dual concentric Treble; Loudness; Power Off-On; Selector (Stereo, Stereo Reverse, Mono Channel 1, Mono Channel 2, Mono Channels 1 and 2); Tape Monitor; Loudness In-Out; Phasing. Outputs: 4, 8, and 16 ohms per channel to speakers, cathode follower to stereo recorder. 10 tubes, 4 silicon diodes. Size, 4x14x12½". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

72 SU 402. \$10 Monthly. **199.50**

METAL CASE. Designed for Sherwood Models S-5000-II and S-5500-III. Shpg. wt., 9 lbs.

72 SX 516. Walnut Leatherette. **EACH 7.50**



NEW S-5500-III 80-WATT STEREO AMPLIFIER

Less Case

\$174⁵⁰

\$9 monthly

- Excellent Performance at Moderate Cost
- Plenty of Power for Distortionless Sound
- Stereo Inputs for Every Music Source
- Full Array of Front Panel Controls

Skillfully designed and moderately priced, this excellent amplifier offers many desired features. Six high-level and four low-level inputs accommodate virtually every sound source. Has 12 db/octave scratch and rumble filters; damping factor of 5 to deliver optimum performance with compact speaker systems; 1.8 mv phono sensitivity; two cathode-follower recorder outputs; friction-locked bass and treble controls for each channel; instant mode selector switch indicator lights. Rated output: 40 watts IHFM music power each channel (80 watts stereo). Response: $\pm$ ½ db, 20-20,000 cps at rated output. Distortion: Harmonic, ½%; IM, 1½% (at 80 watts). Hum & Noise: 90 db down at phono input. Outputs: 4, 8, and 16 ohm per channel; cathode follower to stereo recorder. Tubes, 4—7868 5—12AX7, 4 silicon diodes. 4x14x12½". Less case, at left. For 105-125 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

72 SU 407. \$9 Monthly. **174.50**

MODEL SL-1 "STEREO-LITE"

Plugs into multiplex output jack of any FM tuner. Lights up to give instant indication of stereo broadcast being received. Sensitivity is adjustable and is adequate to operate with any FM tuner. 2½x2½x7½". For 105-125 v. AC. 5 lbs.

72 S 474. \$5 Monthly. **29.50**



Top Music Reproduction

Sherwood



NEW S-2100-II STEREO FM/AM TUNER

pace-setting tuner brings outstanding reception. Has built-in
plex circuitry; stereo indicator light that instantly tells you
you are receiving a stereo broadcast; precision tuning meter;
band limiter; ratio detector. AM section has 2 tuned RF circuits,
le-tuned IF stage, delayed AVC, wide-narrow selectivity switch
M reception. FM Sensitivity: 1.8 μ V IHFM. Frequency Response:
db, 20-75,000 cps. Selectivity: 220 kc at 3 db down. Hum &
60 db below 100% modulation. Outputs: Channel A and B
reo amp or recorder. 13 tubes, plus rectifier. Less case, below.
1/2x12". For 110-125 v. AC. 25 lbs.

J 408. \$11 Monthly.....209.50

(516. Metal Case. Walnut leatherette. 9 lbs.....7.50

J 472. Model S-2000-IV. Similar to above, but less multiplex.
11 tubes plus rectifier, pushbutton function selector, multiplex
nt jack. 4x14x12". Less case, at right. For 110-120 v., 50-60
AC. 17 lbs. \$9 Monthly.....160.50



NEW S-3000-V STEREO MULTIPLEX FM TUNER

Latest model of a renowned series of tuners. Features built-in mul-
tiplex circuitry for outstanding stereo FM; "Inter-channel Hush" that
quiets tuner while you tune; precision meter for pin-point tuning.
Also includes gated-beam limiter; balanced ratio detector; cascade
RF amplifier stage; AGC; 2 IF amplifiers; 2 limiters. Sensitivity: 1.8
 μ V IHFM. Selectivity: 200 kc at 3 db down. Response: $\pm 1/2$ db, 20-
20,000 cps. IM Distortion: below 1/2% at 100% modulation. Uses 9
tubes plus silicon rectifier and 9 diodes. Less case, below. 4x14x
10 1/2". For operation from 110-120 v., 50-60 cycle AC. Shpg.
wt., 18 lbs.

72 SU 406. \$9 Monthly.....165.00

72 SU 418. S-3000-III FM Tuner. Above, less multiplex circuitry.
Shpg. wt., 18 lbs. \$6 Monthly.....110.50

METAL CASES. For S-3000-V, S-3000-III, S-2000-IV. 10 lbs.

72 SU 401. Walnut leatherette.....7.50



Model 7
Stereo
Console
Preamp
in Wood
Cabinet

al 8B 70-Watt
Deluxe Stereo
Basic Amplifier

Marantz

MODEL 7 STEREO CONSOLE PREAMPLIFIER

urb stereo preamplifier for the demanding audiophile. Features
rpressed control versatility, and the finest workmanship. Front
il Controls: 8-pos. Selector, 5-pos. Mode, Volume, Balance, 2—
itor, 2—Bass, 3-pos. Phono Equalization; Tape Playback or
itor, High Filter, Rumble Filter, Off-On. Rear Panel: output level
ntments, 3 pairs of outputs, tapehead equalizer adjustments, 6
outlets, 9 pairs of inputs, system ground. Response: ± 0.2 db,
0,000 cps. IM Distortion: 0.02%. Noise: —80 db. Less cabinet,
w. Size, 5 3/4x15 3/4x8 1/2". For 110-120 v., 50-60 cycle or 235 v. 50
v. AC. Shpg. wt., 19 lbs.

J 269. \$14 Monthly.....264.00

72 SU 270. Wood Cabinet. For above. Beautifully finished oiled
ut. 6 3/4x17 3/4x10 1/4". Shpg. wt., 7 lbs.....24.00

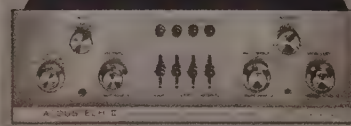
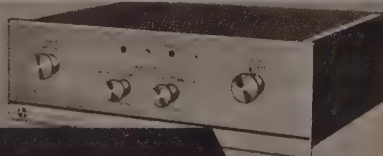
MODEL 8B 70-WATT STEREO BASIC AMPLIFIER

ditional Marantz superiority is clearly exemplified by this re-
able basic amplifier. Each channel delivers 35 watts (70
peak). Changing two connections permits 18-watt triode
ation of each channel for unsurpassed stereo. Built-in bias
or assures optimum operation at all times. Frequency Response:
1 db, 20-20,000 cps at rated output. Harmonic and IM Distortion:
than 0.5%. Output Impedance: 4, 8, 16 ohms. Uses 4—EL34
ut tubes. Compact size, 7 1/4x13 1/2x10 1/2". For 105-125 v., 50-60
v. AC. Shpg. wt., 58 lbs. Shipped express.

Z 273. \$14 Monthly.....264.00

X 276. Gold-Finished Perforated Grille. 1 lb.....9.00

Acoustech I
80-Watt
Stereo Basic
Amplifier



Acoustech II
Stereo
Control
Center



ACOUSTECH

Transistor Stereo Components

ACOUSTECH I TRANSISTOR STEREO BASIC AMPLIFIER. 40 watts-
per-channel. Four silicon output transistors and direct-coupled
solid-state circuitry provide flawless sound. Uses military-type cir-
cuit boards and conservatively-rated components. Massive shielded
power transformer and oversize filter capacitors deliver full rated
power with both channels driven simultaneously. Response: ± 0.25
db, 5-50,000 cps. Distortion: harmonic, 0.7% at 20 watts per channel;
IM, 0.95% at 40 watts. Hum & Noise: 85 db below 40 watts. Controls:
Power, Input Sensitivity (2.5 or 1.5 v.); High and Low Roll-off (3 db/
octave), 5x15 3/4x12". Less case, below. For 110-125 v., 60 cycle AC.
Shpg. wt., 32 lbs.

72 SU 499 - D. \$18 Monthly.....395.00

ACOUSTECH II TRANSISTOR STEREO CONTROL CENTER. This
deluxe unit uses all-transistor circuitry for outstanding transient
response, low distortion and noise. Step-type decade volume,
balance, bass and treble controls are scratch-free, provide uniform
response. Has three switched low-level stereo inputs, and four high-
level stereo inputs, full tapping facilities. Front Panel Controls: Input,
Mode, 2—Treble, 2—Bass, Balance, 2—Level (Decade and Micro),
3-pos. Equalization, 3-pos. Hi-Cut, 3-pos. Lo-Cut, Speaker Selector
3-pos, Power, Loudness On/Off, Monitor, Muting. Response: flat,
1-100,000 cps. Phase Shift: below 1.5°, 20-20,000 cps. Distortion:
Harmonic, below 0.25% at 2.5 v.; IM, below 0.25%. Four AC outlets
(2 switched). 5x15 3/4x12". Less case, below. For 110-125 v., 60 cycle
AC. Shpg. wt., 21 lbs.

72 SU 680 - D. \$17 Monthly.....348.00

72 SX 682. WA Walnut Case. For Models I and II. 10 lbs.....34.50

Buy Your Stereo Hi-Fi Components On Allied's Credit Fund Plan

ALLIED 159

Bogen

Hi-Fi Components for Thrilling Sound



RP230 30-WATT STEREO FM/AM RECEIVER

Enjoy brilliant reception of stereo multiplex FM, monophonic FM, and AM broadcasts. Has magnetic phono, tape, and aux. inputs. "Stereo Minder" indicator lights-up when multiplex is received. Tuning indicator. **Output (IHF):** 15 watts per channel. **Response:** ± 1 db, 20-20,000 cps. **FM Sensitivity:** $3 \mu\text{V}$ (IHF). **Harmonic Distortion:** 0.6% at 30 watts. **Outputs:** 8, 16 ohms; tape head. $5\frac{1}{4} \times 15\frac{1}{2} \times 15$ ". Less case. For 110-120 v., 60 cycle AC. 33 lbs.

72 SU 531. \$13 Monthly..... 249.95
 72 SX 502. EN7 Metal Case. Shpg. wt., 9 lbs..... 12.95
 72 SX 503. WE7 Wood Case. Walnut veneer. Wt., 10 lbs..... 27.95



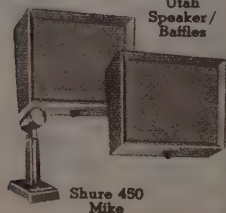
RP60 60-WATT STEREO FM/AM RECEIVER

Just add a pair of speakers to this power-packed, sensitive receiver and thrill to stereo multiplex FM, monophonic FM, and fine A. Inputs are provided for every stereo or monophonic source. Features include "Stereo Minder" multiplex indicator; tuning light; stereo headphone jack on front panel; complete array of controls. **Output (IHF):** 30 watts per channel. **Response:** ± 1 db, 20-20,000 cps. **Sensitivity:** $2.5 \mu\text{V}$ (IHF). **Harmonic Distortion:** 0.6% at full power. **Outputs:** 4, 8, 16 ohms. $5\frac{1}{4} \times 15\frac{1}{2} \times 15$ ". Less case, at left. For 120 v., 60 cycle AC. Shpg. wt., 35 lbs.

72 SU 500. \$16 Monthly..... 314.



RP100-BM
15-Watt
FM-AM
Receiver



Utah
Speaker/
Baffles

Shure 450
Mike

Receiver alone \$186.60 less case

ALTERNATE SYSTEM



Knight KN-990
Changer with Base



Pickering
371
Cartridge

MODEL RP100-BM 15-WATT FM-AM RECEIVER

Hi-fi FM-AM tuner and monophonic 15-watt amplifier. Has inputs for mike and phono—ideal for P.A. use in restaurants, etc. (See R below.) ± 1 db, 20-20,000 cps. 8 and 16-ohm outputs, plus 25-ohm output for up to 60 speakers. $4\frac{3}{4} \times 15 \times 12\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Less case, below. 24 lbs.

72 SU 512. \$10 Monthly..... 186.
 72 SX 559. EN-1. Metal Case. Shpg. wt., 9 lbs..... 11.
 72 SX 569. WE-9. Wood Case. Walnut veneer. 10 lbs..... 26.
 72 S 597. RY-2 Relay. Mutes music when paging. 1 lb..... 10.

HI-FI MUSIC/PAGING SYSTEMS WITH RP100-BM

SYSTEM NO. 1 Save \$34.52. System includes: RP100-BM Receiver and RY-2 Muting Relay (described above); 2 Utah Baffles, with Speakers and Volume Controls, in Choice of Walnut, Mahogany, Blonde Finish; Shure 450 Microphone with Base and Connector. Receiver case (above) and speaker cable (below). Shpg. wt., 44 lbs. Shipped express.

21 HF 325. Specify Baffle Finish. \$11 Monthly..... 219.

SYSTEM NO. 2 Save \$57.26. Same as System No. 1 plus Knight 990 Record Changer with Walnut Base; Pickering 371 Stereo Cartridge with mono Adapter. Less receiver case, cable. 60 lbs.

21 HF 326. Specify Baffle Finish. \$13 Monthly..... 259.

48 TT 767. Speaker Cable. White. 100-ft. roll. 3 lbs..... 2.

DELUXE SHELVING AND ACCESSORIES FOR A "CUSTOM LOOK"



AS EASY AS ONE, TWO, THREE

1

2

3

Give your room a striking "customized" contemporary look. Units are attractive, functional, easy to mount.

Sturdy pairs of steel wall-mounting strips and shelf supports, decoratively finished in satin-silver or satin-gold. Easily hold a complete music system. Install in just minutes. For extra-long shelving, use pairs of strips and brackets. Less shelves, see below. *Extra heavy duty support arms with nylon locking cams.

"BRAX" WALL MOUNTING STRIPS

Length	Wt., lbs.	Satin-Silver Stock No.	PER PAIR	Satin-Gold Stock No.	PER PAIR
24"	1	82 RX 050	.98	82 RX 056	1.3
36"	2	82 RX 051	1.36	82 RX 057	1.7
48"	2	82 RX 052	1.74	82 RX 058	2.1

"BRAX" SHELF SUPPORT ARMS

Length	Wt., lbs.	Satin-Silver Stock No.	PER PAIR	Satin-Gold Stock No.	PER PAIR
8"	1	82 RX 059	.84	82 RX 069	1.0
12"	1	82 RX 060	1.16	82 RX 070	1.4
16"	1	82 RX 061	1.59	82 RX 071	2.0
*16"	2	82 RX 063	2.39	82 RX 072	3.3

OILED WALNUT SHELVES

Beautiful hand-rubbed, oiled walnut shelves provide a handsome setting for hi-fi components, books and bric-a-brac. Installation couldn't be easier—just place on "Brax" shelf supports.

Width	Depth	Lbs.	Stock No.	EACH
42"	8"	15	82 RU 300	5.88
42"	12"	20	82 RU 301	8.69
42"	16"	30	82 RU 302	11.79

NOW AVAILABLE!

Home Music Systems Featuring FACTORY-ASSEMBLED *knight-kits*



ALL-TRANSISTOR TUNER AND AMPLIFIER

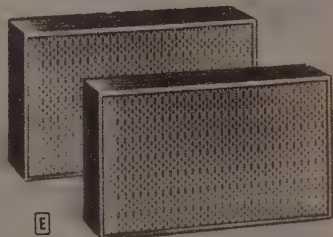
Cleanest, purest sound possible. You get top reliability and stability, with virtually no hum, noise or heat. And compact transistor components solve placement problems.

Complete System
\$534⁹⁵ \$23 monthly

Complete System
\$384⁹⁵ \$18 monthly



**Your Choice of Any One of
Three Stereo Cartridges**



TRANSISTOR STEREO MULTIPLEX FM-AM PHONO SYSTEM—SAVE UP TO \$49.20

Model KG-870 Factory-Assembled Transistor 70-Watt Stereo Amplifier, Oiled Walnut Case.
Model KG-70 Factory-Assembled Transistor Stereo Multiplex FM-AM Tuner, Oiled Walnut Case.
Garrard Type A 4-Speed Automatic Turntable On Walnut Base.

Your Choice of Any One of Three Stereo Cartridges:
Empire 880, Shure M3D, Pickering U38AT.
Two Knight KN-2275 4-Way Deluxe Hi-Fi Shelf Speaker Systems In Oiled Walnut.
as all cables and Allied system instructions. Garrard

Type A combines changer convenience with turntable performance—your records sound better and last longer. Each cartridge has a long-lasting diamond needle. Knight KN-2275 Speaker Systems provide 30-20,000 cps response. 155 lbs. Shipped express.
22 HF 793-D. Specify Cartridge:..... **534.95**

STEREO PHONO SYSTEM—Save up to \$39.30. Includes all components of system listed above, but less KG-70 Tuner. 134 lbs. Express. Specify Cartridge.
22 HF 792-D. \$18 Monthly **384.95**

KG-870 70-WATT STEREO AMPLIFIER

Amplifier of the future—today. 22-transistor, 4-silicon diode circuit gives clean sound, cool operation, exceptional durability, and compact, stylish appearance. 2 $\frac{3}{4}$ x11", Less case, below. For 110-125 v., 60 cycle AC. pg. wt., 15 lbs.

YU 548-D. Factory Assembled..... **149.95**
YX 036-D. Brown Metal Case. 7 lbs..... **6.95**
YX 035-D. Oiled Walnut Case. 9 lbs..... **12.95**

KG-70 STEREO MULTIPLEX FM-AM TUNER

Fantastic stereo and conventional FM and AM reception. 2 μ v sensitivity. Hum, heat and microphonics are virtually nonexistent. Stereo indicator light, tuning meter. 2 $\frac{3}{4}$ x11x9 $\frac{1}{4}$ ". Less case, below. For 110-125 v., 60 cycle AC. 13 lbs.

83 YU 515-D. Factory Assembled..... **149.95**
83 YX 033-D. Brown Metal Case. 6 lbs..... **4.95**
83 YX 032-D. Oiled Walnut Case. 8 lbs..... **9.95**

For Full Description of KG-870 and KG-70, See Pages 2 and 3

ALLIED 161

A New Standard of Performance



**STEREO HI-FI
RECORD
CHANGER**

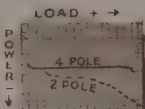
**KN
990**



Precision-balanced pickup arm tracks flawlessly to ensure highest fidelity. Gentle action minimizes record wear. Has built-in needle-pressure gauge, calibrated for adjustments from 0 to 8 grams.



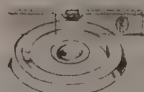
Plug-in head detaches easily; accepts most magnetic or ceramic cartridges.



Heavy-duty 4-pole motor drives oversize 11" turntable at constant speed.



Provision for manual playing by disengaging the changer mechanism.



Handy built-in spirit level allows precise leveling in all planes.

Choose a Cartridge for 1¢



Empire
880



Shure
M3D



Pickering
U38AT



Electro-Voice
149 Ceramic

with cartridge less cartridge

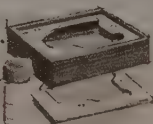
\$49⁹⁶

\$49⁹⁵

NEW! KN-990 4-SPEED HI-FI RECORD CHANGER

The KN-990 . . . Knight's answer to the need for a moderate-priced record player that offers the advantages of both a turntable and an automatic changer. Heavy-duty, high-torque 4-pole motor drives oversize 11" turntable at exact speeds of 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 and 78 rpm. Balanced, lightweight professional tubular pickup arm tracks with extreme accuracy—has built-in needle-pressure gauge, calibrated from 0-8 grams. Changer shuts off automatically after last record plays. Provision for manual playing, too. Built-in spirit-level allows easy leveling. Soft-rubber turntable mat. In charcoal gray and brushed chrome. 14x12". Requires 3 $\frac{1}{2}$ " belt and 5" above mounting board. With template. Less base, below. \$110-120 v., 60 cycle AC. Shpg. wt., 13 lbs.

23 DX 960-2D. KN-990 and 1¢ Cartridge. Specify cartridge. 49.95
23 DX 961-2D. KN-990 and M99 Floating-Head Cartridge. 59.95
95 DX 459-D. KN-990 Alone. 49.95



WALNUT WOOD BASE. For KN-990. 6 lbs.

95 DX 460-D. 49.95

95 DX 461-D. Unfinished Mtg. Board. 2 lbs. 19.95

95 R 462-D. 45-rpm Automatic Spindle. 10 oz. 19.95

BONUS OFFER
Save \$14.75

Buy the KN-990 and get the Shure M99 Floating-Head Cartridge for only \$10.00

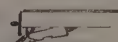
ADMIRAL 4-Speed Stereo Record Changers

As low as \$1995

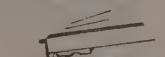
\$3150

with floating cartridge

FEATURING FLOATING-ACTION SCRATCH-PROOF CARTRIDGE!



It Floats!



It Retracts!

Protects your records! Cartridge suspension system within head acts like a shock absorber. If tone arm is accidentally dropped or moved across record, cartridge automatically retracts into the arm. Virtually no record wear!



RECORD BRUSH... built into "Supreme" head picks up dust and lint.



ELIMINATES WEAR—Scratch-proof cartridge suspended within tone arm floats over records!



FEATHERLIGHT—Counter-balanced tone arm makes needle light as a feather. Even plays warped records!

2495

with floating cartridge

Ensign 755F (Base Optional)

Ensign Supreme (Wood Base Optional)

ENSIGN 755F WITH FLOATING CARTRIDGE

Best stereo record changer providing quality performance and an outstanding scratch-proof, floating-action stereo ceramic cartridge for maximum needle and record protection. Precision-made weight arm, heavy turntable and balanced 2-pole motor—plays records gently, quietly. Plays all 4-speeds; has convenient knob speed-function control; Intermixes all size records of speed; automatically shuts off after last record; with turntable on. Turnover cartridge has sapphire needles. Tastefully styled in brown, beige, and silver. 13½"x12". Requires 2½" below and 4½" mounting board. Less base, mtg. board, 45-rpm spindle (at \$24.95). For 105-120 v., 60 cycle AC. 13 lbs.

24.95

211D. As above, but non-floating stereo cartridge..... 19.95

B ENSIGN SUPREME WITH FLOATING CARTRIDGE

Enjoy a value-packed combination of economy and quality with this deluxe-feature record changer and scratch-proof, floating-action stereo ceramic cartridge. Oversize turntable rotates accurately at all 4 speeds. Tone arm has pressure adjustment and record brush. Has built-in level indicator; automatic shut-off; turnover cartridge with diamond and sapphire needles. Brown and gold. 13½"x12". Takes 2½" below, 4½" above mounting board. Less base or mtg. board, 45-rpm spindle. For 105-120 v., 60 cycle AC. 16 lbs.

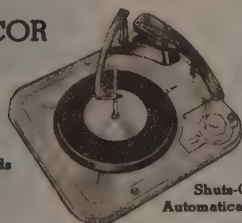
73 RX 212D. \$5 Monthly..... 31.50

73 RX 062-C. Base for Admiral Changers. Mahogany, lined oak or walnut finish—specify choice. Shpg. wt. 5½ lbs..... 4.49

73 RX 063. Unfinished Mounting Board. Wt., 2½ lbs..... 1.50

73 R 076. 45-rpm Spindle. Shpg. wt. 10 oz..... 1.69

RECOR



11 Speeds

Shuts-Off Automatically

1041-51 STEREO CHANGER

With-playing "diskchanger" for 16½", 45 and 78-rpm records. Includes wide-range, ceramic turnover stereo cartridge with sapphire needles. Features: 2-pole motor—extra-long turntable bearing; "rumble" automatic shut-off; 8" turntable. Intermixes 78 rpm 10" and 12" records; 7" and records at other speeds. Adjustable pressure. Stylish beige and brown. 15½"x13½"; 5½" above, 4" below mtg. board. With two 36" cables. Less base. For 20 v., 60 cycle AC. 13 lbs.

73 RX 072. \$5 Monthly..... 27.39

MODEL 1041-S1 DISKCHANGER. As above, has .0007" diamond needle and .003" sapphire needle. Wt., 13 lbs.

73 RX 073. \$5 Monthly..... 30.83

73 RX 074. Base for Webcor Changers. Mahogany finish. Wt., 6 lbs..... 5.68

73 RX 075. Unfinished Mounting Board. 15½"x13½"x1½". Wt., 2½ lbs..... 1.96

73 RX 076. 45-rpm Spindle. 8 oz..... 2.94

MODEL TD-124 TURNTABLE

A Professional 4-speed turntable with variable speed adjustment (±3%). Features: 12", 11½-lb. turntable and belt-pulley idler arrangement to isolate turntable from any motor vibration; idler-disengage for record cueing; lighted strobe; leveler. Less base or mounting board (see below), and arm. 15½"x12½". Requires 2¾" below mtg. plate, supplied. For 110-120 v. or 200-250 v., 50-60 cycle AC. Wt., 35 lbs.

73 RX 027. \$7 Monthly..... 125.00

B TD-121 TURNTABLE. As above, but 33⅓ rpm only; 8-lb. table (less leveler, strobe). 110-120 v., 60 cycle AC. 28 lbs.

73 RX 028. \$5 Monthly..... 85.00

THORENS



A B

Finest Swiss Craftsmanship



C

TD-135 TURNTABLE AND ARM

C A superior 4-speed manual player that automatically shuts-off at end of record. Uses same drive as TD-124 (at left); has 8-lb. non-magnetic turntable. With adjustable speed control and professional pickup arm. Base plate, 15x12". Requires 2½" below mtg. board. Less base or mtg. board (below) and cartridge. For 110-120 v. or 200-250 v., 50-60 cycle AC. Wt., 26 lbs.

73 RX 029. \$7 Monthly..... 125.00

TD-111 33⅓ TURNTABLE. (Not illus.) Adjustable, single-speed; 12" turntable. Less arm, base or mtg. board. Takes 3½" below. For 110-120 v., 60 cycle AC. 23 lbs.

73 RX 030. \$7 Monthly..... 60.00

Stock No.	For	Description	Wt.	EACH
73 RX 031C	TD-124, TD-121	Wood base Mahogany or Walnut	7 lbs.	10.00
73 RX 033C	TD-135	Wood base Mahogany or Walnut	7 lbs.	7.00
73 RX 032C	TD-111	Wood base Mahogany or Walnut	7 lbs.	10.00
73 RX 034	TD-124, TD-121	Unfinished mounting board	5 lbs.	4.50
73 RX 035	TD-135	Unfinished mounting board	5 lbs.	4.50
73 RX 036	TD-111	Unfinished mounting board	5 lbs.	4.50

Get What You Want Now—Use Your Allied Credit Fund

ALLIED 163

Stereo Turntable Ensembles

COMPACT—NO LARGER THAN A RECORD CHANGER!

EXCLUSIVE
Dynamic
Suspension
Design Using
Viscous-Damped
Air Cylinders!



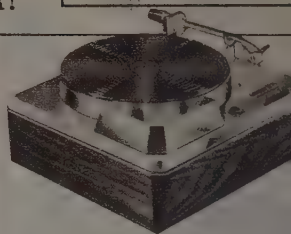
Save \$19.94

488G TURNTABLE PACKAGE WITH 880P BONUS

Professional turntable and arm—finished in luxurious satin-gold—plus 880P deluxe stereo cartridge for only 1¢ more... a royal treat to your eyes, ears and budget! 3-speed, belt-drive turntable virtually eliminates rumble, shock and vibration. Has 5-lb. balanced, aluminum platter; safety suspension mat; 45-rpm adapter; dynamically balanced and suspended hysteresis synchronous motor. Wow and rumble specs surpass even broadcast requirements. Compact size, only 7½x16x13¾". Requires 2¾" above, 3½" below mtg. plate. Less base, below. For 110-120 v., 60 cycle AC. 25 lbs.

23 RU 574-2. \$6 Monthly. 488G Turntable-Arm-Cartridge Combination.....	150.01
73 RU 086. 488G Turntable-Arm Package, less Cartridge. Wt., 25 lbs.....	150.00
23 RU 575-2. 488C Turntable-Arm-Cartridge. As 488G, in satin-chrome.....	150.01
73 RU 088. 488C Turntable-Arm Package, less Cartridge. Satin-chrome.....	150.00
73 RX 091. BW /408 Walnut Base. For 488G or 488C Combinations. Wt., 6 lbs.....	15.00
73 RX 090. 488DC Dust Cover. For above turntables. Wt., 3 lbs.....	7.50

empire



Save \$19.94

398G TURNTABLE PACKAGE WITH 880P CARTRIDGE BONUS

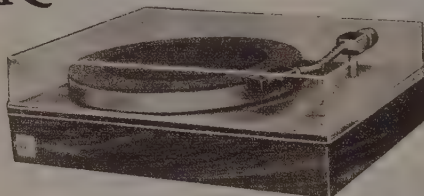
Enhance your music system with this deluxe turntable, arm and base combination. For only 1¢ more, you can realize the range response (6-30,000 cps) of the Empire 880P stereo cartridge! 3-speed turntable belt-drive, hysteresis motor, motor isolation suspension, 6-lb. aluminum platter. Handsomely styled in rich satin-gold, with walnut base. 7½x17x15". For 110-120 v., 60 cycle AC. Wt., 28 lbs.

20 RU 474-2. 398G Package.....	175.00
73 RU 092. 398G Pkg., less 880P.....	17.00
20 RU 486-2. 398C Package. Same as 398G above, but in satin-chrome.....	17.00
73 RU 094. 398C Pkg., less 880P.....	17.00

SAVE on Famous-Name Stereo Turntable Package

AR

2-SPEED TURNTABLE PACKAGE



CHOICE
OF
CARTRIDGE

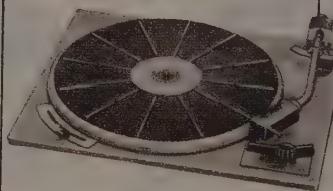
Save
Up To \$9.95

Without
Cartridge
\$68.00

Complete
Package
\$78.00

A brilliant combination at a savings! Includes: the new, AR 2-speed turntable; pickup arm mounted on oiled-walnut base; transparent dust cover; cables; and choice of any one of three stereo cartridges—Empire 880P, Pickering U38AT or Shure M3D. Shock-mounted—Empire 880P, Pickering U38AT or Shure M3D. Shock-mounted turntable has belt-adjust drive for 33½ and 45-rpm; 2 synchronous motors; balanced 3.5-lb. aluminum platter. 12" arm has stylus pressure gauge, and protective damping mechanism. Size (with cover), 5¼x16¾x12¾". For 115 v., 60 cycle AC. Wt., 20 lbs. Specify Cartridge.

23 RU 572-2. \$5 Monthly. AR Package with Cartridge.....	78.00
73 RU 572-2. AR Package, less Cartridge. 20 lbs.....	68.00
73 RU 119. AR Package, less Cartridge. 20 lbs.....	76.00
23 RU 573-2. AR 33½-rpm Package with Cartridge.....	66.00
73 RU 115. AR 33½-rpm Package, less Cartridge.....	66.00



BOGEN
PRESTO

1¢ SALE

371C

SAVE \$7.78

B-61 WITH
CARTRIDGE BONUS

Without
Cartridge
\$64.95

B-61 Plus
Cartridge
\$64.96

Custom-crafted Swiss turntable with matching arm—plus famous-quality Pickering 371C stereo cartridge—for only 1¢ more than the price of the B-61 alone! You Save \$7.78. Continually variable from 29 to 86 rpm, with settings for the 4-standard speeds. The B-61 allows perfect "pitch-tuning." Other top-performance features include: rubber covered 7¼-lb. 12" turntable; 4-pole motor; arm with built-in micrometer-type pressure gauge. Told up to 16" discs. Arm is raised by linkage for easy cueing. Cartridge offers response of 18-22,000 cps, ±2 db; has diamond .000 stylus. 15¼x13¼", requires 2½" above, 2¼" below mounting board. Less base. For 110-120 v., 60 cycle AC. 21 lbs.

23 RU 563-2. \$5 Monthly. B-61 Plus Cartridge Bonus.....	64.95
73 RU 037. B-61 Turntable and Arm Alone. Wt., 21 lbs.....	64.95
73 RX 038. Wood Base. Finished in walnut. 8 lbs.....	5.50
73 RX 221. Model COV-1 Dust Cover. Wt., 3 lbs.....	5.50
73 R 039. Aluminum Plug-In Head. Shpg. wt., 6 oz.....	4.00

NEW!



With Cartridge

\$89⁹⁶

You Get the R-34 with Arm and Base—PLUS Choice of Cartridge for Only 1¢ More



Speeds
Custom Motor
Heavy Turntable

R-34 TURNTABLE, ARM, BASE AND CARTRIDGE

Here's the latest Rek-O-Kut turntable-arm-base combination at a high-value price—plus your choice of Empire 880P or Pickering U38/ATG cartridge for only 1¢ more. Deluxe synchronous motor, hermetically oil-sealed—superb rotating accuracy. Precision-machined, cast aluminum turntable with resonance-inhibiting properties. Self-lubricating, ball-bearing suspended, micro-finished turntable shaft. Isolated, phased, acoustic suspension. Plays at 33 $\frac{1}{3}$ and 45 rpm. Noise: 58 db below recording level. Wow and Flutter: 0.09%. Arm has ball-bearing pivots and bearings, plug-in cables and separate ground lead. Tracks as low as 1 gram. "Rekothane" cushion-soft belt is adjustable for optimum, noise-free operation. 6 $\frac{1}{4}$ "x14 $\frac{1}{2}$ "x14 $\frac{3}{4}$ ". Complete with walnut base. For 110-120 volts, 60 cycle AC. Shpg. wt., 18 lbs. \$5 Monthly.

23 RX 570-2D. Specify Cartridge..... **89.96**
73 RX 237. As above, less cartridge. Wt., 18 lbs..... **89.95**

B-12H 3-SPEED TURNTABLE

For the discriminating audiophile. Three speeds: 33 $\frac{1}{3}$, 45 and 78 rpm. Custom hysteresis-synchronous motor, for highest rotational accuracy. Heavy aluminum alloy turntable. Noise: -57 db. Wow and Flutter: Less than 0.12%. Requires 6 $\frac{1}{4}$ " below deck. 17 $\frac{3}{4}$ "x16" Less base (below) and arm—see S-320 next page. For 110-120 volts, 60 cycle AC. Shpg. wt., 23 lbs.

73 RU 013. \$9 Monthly..... **165.00**
73 RX 006. Model BH Walnut Base. For above. 8 lbs..... **18.95**
73 RU 014. B-12GH Stereotable. Same as B-12H, but standard hysteresis motor. 4 $\frac{3}{4}$ " below deck. 21 lbs. \$6 Monthly..... **109.95**
73 RX 015. Model BW-1 Walnut Base. For above. 8 lbs..... **16.95**

AF-1 ACOUSTI-MOUNTS

(Not illustrated) Soft rubber, for use in mounting Stereotables. Reduce acoustic feedback. Wt., 2 lbs. 4 per package.

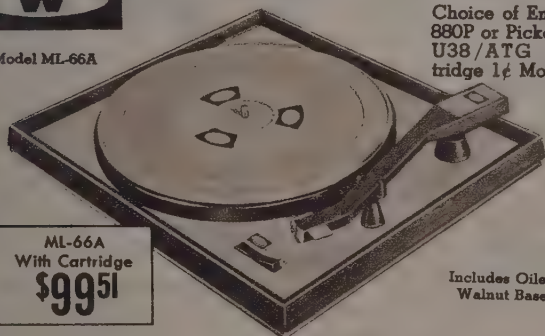
73 R 026..... **PER PKG. 3.50**



WEATHERS TURNTABLE COMBINATION

Choice of Empire 880P or Pickering U38/ATG Cartridge 1¢ More!

Model ML-66A



ML-66A
With Cartridge
\$99⁵¹

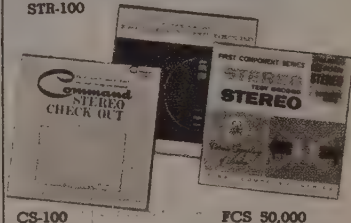
Includes Oiled Walnut Base

- Newest Weathers Turntable for the Ultimate in Performance
- Two, High-Precision Hysteresis Synchronous Motors
- Viscous-Damped, Hand-Carved, Oiled Walnut Arm
- Complete with Cartridge of Your Choice for 1¢ More!

highlights minimum weight and size—yet gives you the ultimate in performance. Applied with stereo arm—and choice of Empire 880P or Pickering U38/ATG cartridge just 1¢ more! Weighing 6 pounds and suspended on neoprene mounts, it is virtually "seismic platform"—insensitive to the sources of acoustic feedback. Two, high-precision hysteresis synchronous motors. Noise Level: -60 db (down from recording level). Wow and Flutter: 0.04%. Hand-crafted, oiled-walnut arm is viscous-damped both mechanically and laterally. Oiled walnut base. For 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs. \$5 Monthly.

RX 571-2D. Specify Cartridge..... **99.51**
RX 240. As above, but less cartridge. \$5 Monthly..... **99.50**
RX 242. Model K66. As above, but with Weathers LDM "Stress Generator" cartridge. \$5 Monthly..... **129.50**

STR-100



CS-100

FCS 50,000

STEREO TEST RECORDS

CBS LABORATORIES STR-100. Stereo tests: sweep frequency (40-20,000 cps), spot frequency (20,000-20 cps), separation, arm resonance, wavelength loss and stylus wear, compliance and phasing. Also, 1000-cycle reference tone and "three-penny test" as a check on stylus pressure. Wt., 12 oz.

82 R 232-D..... **8.50**

AUDIO FIDELITY FCS 50,000. Stereo tests: metronome, 1000-cps sine-wave, rumble and hum, high-frequency sine-wave, low-frequency sine-wave, 70-15 cps sweep, phasing, Musician's A (440 cps), and channel separation. A First Component Series record. 5 classical selections. Wt., 12 oz.

82 R 231-D..... **2.49**

COMMAND CSC-100. Stereo tests: Balance, vol., reference, freq., output balance, wow, flutter, phasing, acoustical and rumble. 4 popular selections. 12 oz.

82 R 230-D..... **5.98**

Choice Stereo Cartridges for Superb Hi-Fi Music

SHURE



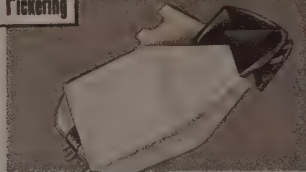
M3D STEREO DYNETIC

Deluxe magnetic cartridge with .0007" diamond stylus. 20-15,000 cps. Separation: 20 db. Compliance: 4×10^{-6} cm/dyne. Tracks at 3-6 grams. Shpg. wt., 3 oz.

73 RC 900D.....15.75

73 RC 914D M3D/N21D. Professional version of above. 20-20,000 cps. Comp.: 9×10^{-6} cm/dyne. Tracks at $1\frac{1}{2}$ to $2\frac{1}{2}$ grams. 46.30

Pickering

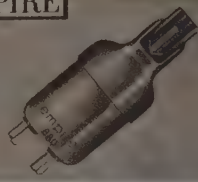


U38AT STEREO CARTRIDGE

Designed by Pickering for use with automatic turntables. Magnetic. Offers complete mu-metal shielding, wide response and high compliance. Response: ± 2 db, 20-17,000 cps. Separation: 35 db. Output: 2 mv. Tracking force: 2 to 5 grams. User-replaceable .0007" diamond stylus. Wt., 2 oz.

73 RC 901D.....16.75

EMPIRE



880 STEREO CARTRIDGE

Features lower dynamic mass and high compliance—reduces distortion to the vanishing point, makes possible wider frequency response, and gives channel separation exceeding 30 db. For any record changer. Amazingly light "Dyna-Life". .0007" diamond stylus is coupled with specially engineered magnetic element of extremely low dynamic mass. Response: 10-28,000 cps. Compliance: 15×10^{-6} cm/dyne. Tracking force: $\frac{3}{4}$ -5 grams. Shpg. wt., 4 oz.

73 RC 902D.....17.95

MODEL 880P. Deluxe version of 880 above. For turntable or record changer use. Hand polished .0006" diamond stylus. 6-30,000 cps. Compliance: 15×10^{-6} cm/dyne. Tracks as low as $\frac{1}{4}$ gram. Shpg. wt., 4 oz.

73 RC 903D. \$5 Monthly.....19.95

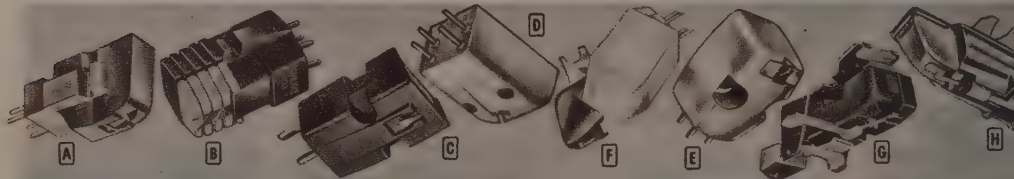
LOW-COST PICKERING MODEL 371C STEREO CARTRIDGE

Extremely low-cost professional-quality magnetic cartridge with user-replaceable .0007" diamond stylus. For all record changers. Response: ± 2 db, 20-15,000 cps. Channel separation: 20-25 db. Tracking force: 3-7 grams. Output: 2 mv. Wt., 2 oz.

73 RC 912D.....7.79



FAMOUS-NAME HI-FI CARTRIDGES—STEREO AND MONOPHONIC



A SHURE M7D. Stereo dynetic with N7D .0007" diamond stylus. Magnetic. 20-15,000 cps. Separation: 20 db. Compliance: 3.5×10^{-6} cm/dyne. Tracks from 4-7 grams. Shpg. wt., 3 oz.

73 RC 913D.....11.76

CUSTOM M7D. Similar to above, but N21D stylus. 20-20,000 cps. Compliance: 9.0×10^{-6} cm/dyne. $2\frac{1}{2}$ -gram tracking.

73 RC 915D. \$5 Monthly.....36.01

B SHURE M33-7. Professional stereo dynetic cartridge. 20-20,000 cps. Separation: 22.5 db. Compliance: 22.0×10^{-6} cm/dyne. Tracks from 1.5 to 3 grams. .0007" diamond stylus. 2 oz.

73 RC 918D. \$5 Monthly.....35.57

M33-5. As above, but tracks $\frac{3}{4}$ to 1.5 grams. .0005" stylus.

73 RC 919D. \$5 Monthly.....35.57

C SHURE M5D. Monophonic, magnetic cartridge with .001" diamond stylus. 20-20,000 cps. Compliance: 3×10^{-6} cm/dyne. Tracks from 2-6 grams. Wt., 3 oz.

73 RC 916. \$5 Monthly.....26.95

D GRADO CLASSIC SERIES. Stereo cartridge with .0007" diamond stylus. Magnetic. Response: 15-28,000 cps. Channel separation: 30 db. 3 oz.

73 RC 948. \$5 Monthly.....49.50

E ADC-1 MK II. For turntables. Magnetic. .0007" diamond stylus. 10-20,000 cps. Sep., 30 db. Compliance: 25×10^{-6} cm/dyne. $\frac{1}{4}$ -1.5 gram tracking. 3 oz.

73 RC 976. \$5 Monthly.....49.50

ADC-3. Similar to above, but for universal use. Compliance: 15×10^{-6} cm/dyne. 2.5 gram tracking. 2 oz.

73 RC 977. \$5 Monthly.....37.50

F PICKERING 380C. Hermetically sealed and encapsulated stereo cartridge with .0007" diamond stylus. Magnetic. For record changers. 20-15,000 cps. Separation: 35 db. Tracks 4-7 grams. 2 oz.

73 RC 965.....11.85

G NEW ASTATIC 229. Floating, ceramic stereo cartridge with .0007" diamond stylus. Response: 30-15,000 cps. Separation: 25 db. Compliance: $12-15 \times 10^{-6}$ cm/dyne. Tracks 2 to 3 grams. Wt., 3 oz.

73 RC 978.....13.45

H SONOTONE 9TASDF-V. Velocitone ceramic stereo cartridge with new .0006" "flexible" diamond stylus. Response: 17,000 cps. Channel separation: 25 db. Compliance: 3.5×10^{-6} cm/dyne. Tracks from 2.5 grams. Shpg. wt., 3 oz.

73 RC 220.....11.55

DIAMOND REPLACEMENT STYLI FOR CARTRIDGES ABOVE

Styli are .0007" except *.0005" and †.0006". †For Shure stereo cartridges (except M399 Series, M-35 and M33-7) used in arms that

track from $\frac{3}{4}$ to $1\frac{1}{2}$ grams. †Professional models. In Mfr's column. P is Pickering, Emp. is Empire, Son. is Sonotone. KN is Knight.

Stock No.	Mfr.	Type	Fer	EACH
73 RC 920	Shure	N3D	M3D	9.95
73 RC 922	Shure	N7D	M7D	7.95
73 RC 923	Shure	N21D	M3D†, M7D†, M212, M216	24.25
73 RC 924	Shure	N33-5*	M33-5	19.50
73 RC 925	Shure	N33-7	M33-7	19.50
73 RC 927	Shure	N22D†	M222, M226	24.75
73 RC 808	Shure	N99	M99 "Gard-A-Matic"	12.95
73 RC 943	Pic.	D3807AT	U38AT (Black)	9.90
73 RC 960	Pic.	D3807A	380A (Yellow)	9.90
73 RC 959	Pic.	D3807C	380C (Red)	9.90
73 RC 961	Pic.	D9007	90, 371C, MK11C (Black)	7.50
73 RC 805	Pic.	D3807ATG	U38ATG	12.00

Stock No.	Mfr.	Type	Fer	EACH
73 RC 906	Emp.	S880-7RD	880	9.95
73 RC 908	Emp.	S880P-6RD†	880P	12.95
73 RC 910	Emp.	S88-7RD	88	12.55
73 RC 904	Emp.	S108-7RD	108	17.55
73 RC 957	ADC	ADC-R1	ADC-1	25.00
73 RC 958	ADC	ADC-R2	ADC-2	15.00
73 RC 806	ADC	ADC-R3	ADC-3	12.00
73 RC 807	Son.	N-9916-RDF	9T, 9TA, 9TAF, 9TV, 9TAV, 9TAFV	3.45
73 RC 802	KN	.0007"	KN-500	5.95
73 RC 803	KN	.0007"	KN-505X	8.95
73 RC 804	KN	.0005"	KN-500X	6.95

Popular Professional Arms for Hi-Fi Turntables

REK-O-KUT

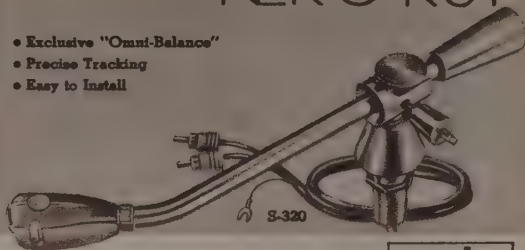
EL S-320 12" PROFESSIONAL PICKUP ARM

arm with exclusive Rek-O-Kut "Omni-Balance." Assures lateral balance under all conditions—with any cartridge, cord and at any speed. Improves stereo channel balance—no groove jumping. Isolated counter-weight provides static balance. Micro-adjustment permits selection of precise tracking error. Supplied complete with cartridge shell and pre-wired shielded for minimum hum. Single-hole mounting. Less weight. Shpg. wt., 2½ lbs.

S-320. \$5 Monthly.....**34.95**

14. Extra PS-20L Cartridge Shell Only. 6 oz.....**5.95**

- Exclusive "Omni-Balance"
- Precise Tracking
- Easy to Install



GRADO



GRADO LAB SERIES 12" PICKUP ARM

superbly engineered arm with all professional features. Made in one-piece, select, balanced gun-stock walnut. Anodized aluminum fittings throughout. Tracking error is a low ± 0.5 degrees. Tracking force is adjustable down to 0.5 gram. Has four leads.

Shure cartridge. Shpg. wt., 1¾ lbs.

GRX 118. \$5 Monthly.....**39.50**

14. Extra Cartridge Mount Kit. 6 oz.....**2.95**

SHURE HIGH-QUALITY PICKUP ARMS

MODEL M232 12" ARM. Popular arm with plug-in head for use with any cartridge. Ball-bearing pivots. Variable height. Tracking force adjustable, 0-8 grams. 12½" long. Supplied less cartridge. Shpg. wt., 2 lbs.

GRX 105. \$5 Monthly.....**29.35**

14. Model A23H Extra Plug-In Head. 4 oz.....**2.35**

MODEL M222 12" DYNETIC ARM AND STEREO CARTRIDGE. Unique combination. Tracks at only ¾ gram. Stereo cartridge Shure M22, with .0005" diamond stylus. Response: ± 2.5 db, 20,000 cps. Separation: Over 20 db at 1000 cps. Compliance: 10^{-6} cm/dyne. Wt., 1 lb.

GRX 110. \$5 Monthly.....**89.50**

14. M226 Arm & Cartridge. 16" arm. 1¼ lbs.....**89.50**

ADC-85 PRITCHARD ARM AND CARTRIDGE

Radio Dynamics professional combination. Features the Model arm and the ADC-1 cartridge. Dynamically balanced, walnut arm tracks at pressures of .75 -1.5 grams; suppresses resonant frequencies. Friction-free, single ball-bearing mount. Response: ± 2 db, 10-20,000 cps. Separation: 30 db. With .0006" stylus. Wt., 2¼ lbs.

GRX 132. \$5 Monthly.....**89.50**

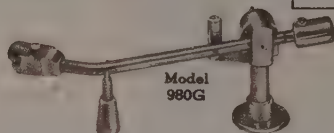
EMPIRE DELUXE 980G PICKUP ARM

Has perfect dynamic balance—tracks even when upside down! Maximum tracking error, $\pm .650^\circ$. Arm resonance, 6 cps. Pressure adjustable from 0-8 grams. Satin gold finish. Less cartridge. 5 lbs.

73 RX 098. \$5 Monthly.....**50.00**

73 RX 099. MODEL 980C. As above, but satin chrome finish.....**50.00**

73 R 100. Extra Cartridge Mounting. Wt. 3 oz.....**1.95**

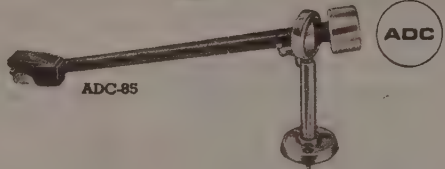


empire

SHURE



- Perfectly Balanced
- Adjustable Tracking
- Choose From 3 Models



ADC

"FLOATING" STEREO CARTRIDGES IN PLUG-IN HEADS FOR GARRARD CHANGERS

SHURE "GARD-A-MATIC." Now—get the extra listening pleasure a Shure magnetic cartridge offers—plus the safety of "Gard-a-Matic" design. Scratch-proof and bounce-proof—stylus retracts when arm is dropped. Response, 20-20,000 cps. With .0007" diamond stylus. Shpg. wt., 2 oz.

RC 972-D. M99/A. For Type A changers. \$5 Monthly.....**24.75**

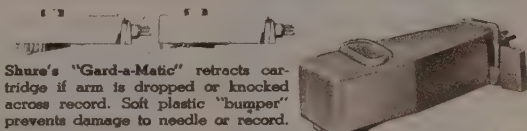
RC 971-D. M99/AT6. For Type AT6 changers. \$5 Monthly.....**24.75**

PICKERING "SAFE V-GUARD." The new "Safe V-Guard" floating stylus cartridge in Garrard plug-in head. Protects both your record and stylus. Tracks at 1-3 grams. Wide-range response, 20-17,000 cps. .0007" dia. stylus. 3 oz.

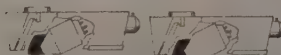
RC 974-D. GA/38ATG. For Type A changers.....**22.95**

RC 975-D. G6/38ATG. For Type AT6 changers.....**22.95**

RC 811-D. U38/ATG Cartridge Only. Less head.....**17.95**



Shure's "Gard-a-Matic" retracts cartridge if arm is dropped or knocked across record. Soft plastic "bumper" prevents damage to needle or record.



Pickering's "Safe V-Guard" floating stylus retracts into cartridge if arm is dropped. Scratch-free surface acts as barrier between record and stylus.



To Money Down with Allied's Credit Fund Plan

ALLIED 167

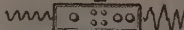
FAIRCHILD

Accessories to Improve Your Hi-Fi


FAIRCHILD MODEL 510 "COMPANDER"

Adds breathtaking realism to the sound of your stereo hi-fi system. Ensures full-dynamic-range reproduction—also helps prevent overloading and distortion when recording. Automatically increases (up to 6 db per channel) the dynamic range (ratio between loudest and softest sounds) of program material compressed by record and tape manufacturers—with no change in frequency response. With a flick of a switch, compresses (reduces) dynamics, for recording or background music, up to 20 db

per channel—prevents overloading and sudden playback peaks. Threshold controls permit adjustment of expansion or compression. Action-indicator lights let you see the effect taking place. Requires no AC power—phono plugs into the 510, which plugs into your amplifier. For any amplifier with 4 to 16-ohm output. Only 2 $\frac{5}{16}$ x8 $\frac{3}{16}$ x5". Shpg. wt., 8 lbs.
72 SX 043. \$5 Monthly.....75.00
MODEL 510K. As above, but in kit form.
72 SX 527. \$5 Monthly.....59.95



Lends Dramatic
"Presence" to Records
and Tapes



Dynamic-Expansion
Indicators

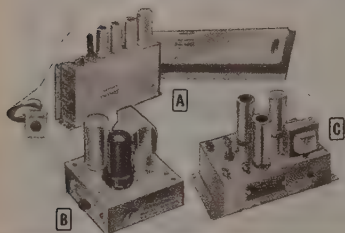


"MUSIC
MINDER"

Just Doze off—
Music-Minder Stereo
Automatic system

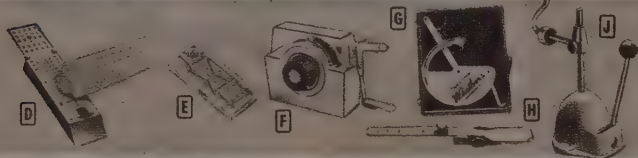
Enjoy the luxury of an automatic in system at low cost. The "Music-Minder" shuts off your entire system after the record has played on your channel. The amplifier and changer simply into "Music-Minder" Has manual operation for non-automatic operation. Garrard, Collaro, Thorens and European-made record changers. 6 $\frac{1}{2}$ x2x1 $\frac{1}{2}$ ". Shpg. wt., 2 lbs. 5
82 R 079. As above, but for use American-made record changers. S wt., 2 lbs.

REVERBERATION UNIT AND PREAMPS TO ENHANCE HI-FI LISTENING



A FISHER K-10 REVERB UNIT. The "Space-expander" allows you to produce genuine concert-hall acoustics in your home. For all stereo or monophonic music systems using separate preamps or having tape monitoring facilities. In stereo systems, can be connected to center-channel amplifier and speaker. Delays part of signal 33 milliseconds, simulating the thrilling, natural reverberation of a large auditorium. Requires 0.2 volt input. 10 lbs.
72 SX 097. \$5 Monthly.....69.50

B 72 S 049. Fisher PR-6 Preamp. Uses magnetic cartridge, tape head or m to drive amplifier not having magnetic in ± 2 db, 20-30,000 cps. For 115 v AC. 1 $\frac{1}{2}$ lbs. 14
C 73 R 102. Shure M-65 Stereo Preamp. Converts ceramic inputs to magnetic. 6 $\frac{1}{2}$ x3 $\frac{5}{16}$ x3 $\frac{1}{4}$ ". For 115 v AC. Wt., 5 **\$5 Monthly.....23**
73 R 103. As above, but transistorized. 5 $\frac{1}{4}$ x5". For 115 v AC. 1 lb. 2



STYLUS PRESSURE GAUGES AND ARM POSITIONER

D ROBINS SG-2 PRESSURE GAUGE. Calibrated to measure stylus pressure from $\frac{1}{2}$ to 8 grams. Shpg. wt., 5 oz.
82 R 258.....75¢

E ACOUSTIC RESEARCH NEEDLE FORCE GAUGE. Equal arm-balance; as low as $\frac{1}{4}$ gram. Used on AR turntables. 4 oz.
82 R 260.....1.00

F GARRARD PRESSURE GAUGE. Calibrated in 1-gram intervals up to 10 grams. Moving parts are lightweight alloy, sealed for added protection. Wt., 5 oz.
82 R 035.....2.95

G WEATHERS PRESSURE GAUGE. Indicates stylus pressure with calibrations from 0 to 10 grams. Shpg. wt., 7 oz.
82 R 041.....2.00

H WALCO PRESSURE GAUGE. Sets stylus pressure from 2 to 10 grams without using springs or cams. Wt., 6 oz.
82 R 032.....1.00

J DEXTRAFIX ARM POSITIONER. Raises or lowers pickup arm with lever. Adjusts to all record sizes and to height of any pickup arm. Shpg. wt., 5 oz.
82 R 037.....3.95



K AUTOMATIC DUST-BUG

Lightweight plastic arm with fine nylon brush, pad-type dust collector and p cleaning fluid. Arm suction-cup mounts to base. Brush loosens dust; pad picks up. Fluid cleans pad. 8 oz.
82 R 022. For Turntables.....5.7
82 R 021. For Changers.....4

L RECORD DUST-REMOVER

"Parastatik Preener" instantly removes grime. Just lightly rub brush (with removable, wetted wick) over rotating record. Leaves no film. 6 oz.
82 R 261.....3.95

M WALCO RECORD SPRAY

Effective, easy-to-apply spray deposits a thin, anti-static film on records. Extremely helpful in retarding accumulation of harmful dust and lint. Supplied in 6-oz. aerosol spray can. 7 oz.
82 R 030.....EACH 88¢
3 for.....2.20

N RECORD CLEANING KIT

Handy Lektrostat kit contains a 1 $\frac{1}{2}$ plastic bottle of anti-static detergent fluid and a tufted wiping pad. Apply fluid to record, and then wipe it off with the pad. Dust and lint disappear—re-accumulation is resisted. Shpg. wt., 5 oz.
82 R 023.....1.95



Quality Phono Accessories by

ROBINS

ADD EXTRA HOURS OF LIFE TO YOUR RECORDS

ESK-3A RECORD CARE KIT. Ends all record care problems. Has everything needed for preserving the life and quality of your records. Contains: stylus pressure gauge to measure groove force; turntable mat to prevent groove damage; stylus microscope; chemically treated cleaning brush; to keep stylus free of dust; recleaning brush; arm lift. 1 lb.

R 000..... **3.45**

ESK-7 "DISK-WHISK" KIT. Automatic record cleaner clips to pickup arm. Has tile-acting, floating nylon brush and motor cylinder. Combine to loosen and remove dirt and dust from grooves as records pass. Anti-static liquid cleans and lubricates. Shpg. wt., 8 oz.

R 250..... **2.40**

R-8 RENEWAL KIT. For above. Contains tile of anti-static fluid and two mohairinders. Shpg. wt., 3 oz.

R 251..... **1.20**

ESK-2A SOUND KIT. Greatly reduces record wear. With this kit, you maintain correct stylus pressure, know when it's time to replace your stylus, and keep your changer/turntable perfectly flat. Sound kit includes stylus pressure gauge, turntable level, and Robins' unique acrylic stylus microscope. 6 oz.

R 252..... **1.95**

RK-1A SOUND KIT. (Not illus.) Ensures longer record life. Kit includes precision stylus pressure gauge and accurate turntable level. Wt., 4 oz.

R 253..... **1.50**

RA-75S SLIP-ON BRUSH. Soft camel-hair brush that clips to pickup arm and brushes record ahead of stylus. Selected, lightweight fibers. Does not scratch record or disturb arm. 3 oz.

R 007..... **29¢**

RL-1 BRUSH AND ARM LIFT. (Not illus.) Clips to pickup arm providing convenient changer lift. Floating nylon brush gently sweeps dust from record. 3 oz.

R 254..... **60¢**

NB-1 "KLEENEEDLE" BRUSH. Automatic protection for needle and records. When pickup arm is cycled, needle is wiped through brush. Removes accumulated dust, lint, etc. from needle—helps prevent distortion. Base has adhesive pad. 4 oz.

R 002..... **95¢**

ESK-5 STROBE-LIGHT KIT. Indicates in a jiffy whether your turntable is rotating at proper speed. Includes stroboscopic disc and neon lamp. Just hold lamp over appropriate dots. For 110-120 v., 60 cycle A.C. 6 oz.

R 014..... **98¢**

RD-4S "STROB-DISC." (Not illus.) Stroboscopic card quickly indicates turntable speed when observed under neon or fluorescent light. Has bands for measuring 16 $\frac{2}{3}$, 3 $\frac{1}{3}$, 45 or 78 rpm speeds. Less light. Shpg. wt., 2 oz.

R 004..... **20¢**

TL-2R ROUND TURNTABLE LEVEL. It's easy to exactly level your turntable or changer with this flat level. Prevents record groove damage—lengthens record life—ensures best fidelity. Uses water bubble. Wt., 3 oz.

R 255..... **1.50**

H E15-S PLASTIC RECORD COVERS. Protective sleeves for storing 12" records. Durable polyethylene plastic with thermoseal seams resists tearing. Prevent scratching of delicate records, and seal records from dust and moisture. Can be used with or without cardboard jacket. Package of 15 sleeves. Wt., 7 oz.

82 R 001..... **PER PKG. 58¢**

3 Packages for..... **1.69**

IC-1S "JOCKEY CLOTH." (Not illus.) Clean and add extra hours of life to your records at the same time with this handy cloth. Chemically treated with silicone, it lubricates record surface and removes dirt and lint. Washable. Shpg. wt., 3 oz.

82 R 256..... **EACH 34¢**

3 for..... **90¢**

CC-US RECORD CHANGER COVER. Fits most record changers. Protects changer from harmful effects of dust, moisture, etc. Made of durable soft plastic. Size, 17x15x8 $\frac{3}{4}$ ". Shpg. wt., 6 oz.

82 R 017..... **98¢**

CC-TUS TURNTABLE COVER. Fits many turntables, including Fairchild, Rek-O-Kut and Garrard. A must for adequate protection—helps keep turntables like new. 22x16 $\frac{1}{2}$ x9". Shpg. wt. 6 oz.

82 R 018..... **1.25**

SA-55 45-RPM AUTOMATIC SPINDLE. (Not illus.) Fits changers with straight spindles including V-M, Columbia, G.E., Motorola, Philco, RCA, Zenith, Sylvania, Westinghouse, Glaser-Steers. Wt., 10 oz.

82 R 264..... **2.70**

RA-45M 45-RPM RECORD INSERTS. (Not illus.) Nickel-plated snap-in metal adapters. Allow you to play 45-rpm records on regular spindle. Snap into place in a jiffy—may be removed just as quickly. Pkg. of 5. 4 oz.

82 R 010..... **PER PKG 18¢**

3 Packages for..... **49¢**

PC-12S PHONO CUSHION. Polyester foam mat that prevents your records from slipping, and cushions drop when used on changer. 12" dia. $\frac{9}{16}$ " thick. 3 oz.

82 R 005..... **69¢**

82 R 006. Same as above, but 9 $\frac{3}{4}$ " in diameter. Shpg. wt., 3 oz..... **59¢**

PC-22 RIM-REST PHONO CUSHION. New idea in preventive record protection—styrene plastic cushion with graduated ridges for 7", 10" and 12" records. Records rest on the rims only—damage to grooves is prevented. Fits all changers and turntables. 12" diameter. Shpg. wt., 8 oz.

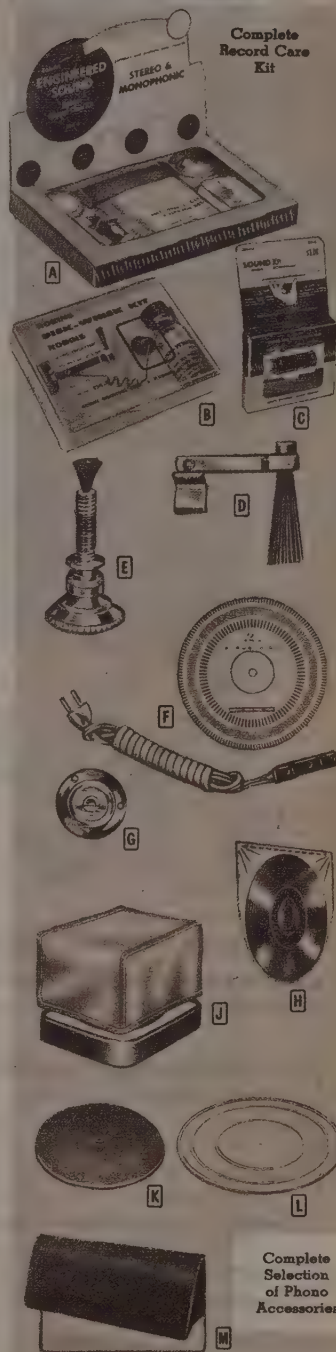
82 R 257..... **1.50**

IP-16S ISOLATION PAD. Minimizes acoustic feedback, reduces noise and protects furniture from heat. Fits beneath changer or any other unit. Made from soft, foam rubber. Can't mar your furniture! 12 $\frac{1}{2}$ x16". Shpg. wt., 12 oz.

82 R 009..... **1.00**

ESK-4 PHONO LEVELING KIT. (Not illus.) Kit contains 4 adjustable rubber feet and circular 4-way bubble level (similar to TL-2R, Fig. G above) for mounting on top of turntable. Shpg. wt., 1 lb.

82 R 016..... **2.34**



**KNIGHT**

Thin-Line Speaker System Kit

ALSO AVAILABLE FACTORY ASSEMBLED

*You Need Just a Screwdriver to Put
the KN-2250K Together in Moments*

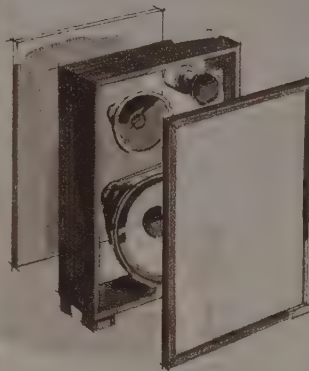
All Screw Holes
Are Pre-Drilled

The Speakers Are
Already Mounted

All Four Sides Are
Completely Finished

Just Stretch and
Tack Grille Cloth
to the Frame

Then Screw on
Front and Back.

**KN
2250**

in kit form
\$57⁴⁵
each in pairs

assembled
\$66⁴⁵
each in pairs

MODERN BEAUTY AND TOP SOUND REPRODUCTION—AT LOW COST

- 3 Speakers—12" Woofer, 6" Mid-Range, Compression-Type Tweeter—Electrical Crossovers
- Safely Handles up to 45 Watts of Program Sound
- Oiled Walnut Finish—Cabinet Just 7" Deep

Made specially for Allied in Great Britain—you get dazzling high-fidelity reproduction plus graceful, ultra-slender decor for styling with this fabulous thin-line speaker system kit. The 3-speaker array gives you deep, boom-free bass, smooth mid-range, and sparkling treble response to please every ear. Beautifully styled, enclosure fits in with virtually any decorative scheme and offers you the opportunity of unlimited placement possibilities in your home.

Assembly is accomplished in a matter of minutes—all holes are pre-drilled—speakers are already mounted on the baffle board. Sturdily constructed of vibration-free, 3/4" hardwood, the enclosure is finished on all four sides in hand-rubbed, oiled walnut veneer. All you do is stretch and tack the grille cloth (which comes in a roll) over the frame; then screw on front and back to the enclosure. Nothing more than a screwdriver is needed! All hardware and wire is supplied. Four "feet" are included—attach them for vertical or horizontal floor operation of speaker system. Includes easy-to-follow assembly instructions. Size, 25x17x7". Shpg. wt., 40 lbs.

95 DU 302-D. Kit Form. \$5 Monthly. EACH 59.95
Buy a Pair and Save \$3.00. Two or More, Each 57.95
95 DU 303-D. Assembled Version. \$5 Monthly EACH 69.95
Buy a Pair and Save \$7.00. Two or More, Each 66.95

KN-2250 SPECIFICATIONS

Frequency Response: 35 to 19,000 cps.

Woofer: 12" high-compliance with 1-lb. ceramic magnet; 1 3/4" voice coil; Superfoam type cone.

Mid-Range: 6" closed-back cone type with 4-oz. Alcomax magnet.

Tweeter: horn-loaded, compression-type with 4-oz. Alcomax magnet.

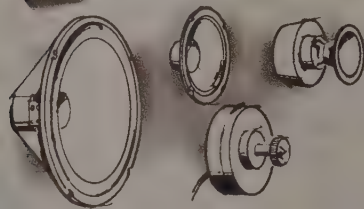
Crossover: Electrical, 5000 cps.

Capacity: 45 watts of program material.

Impedance: 8 ohms.

Perfectly Matched Speakers!

Balanced bass, mid-range and treble reproduction give efficient sound—with any amplifier.





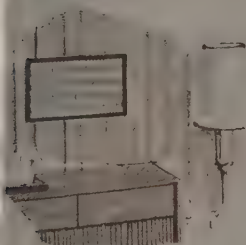
New Thin-Line



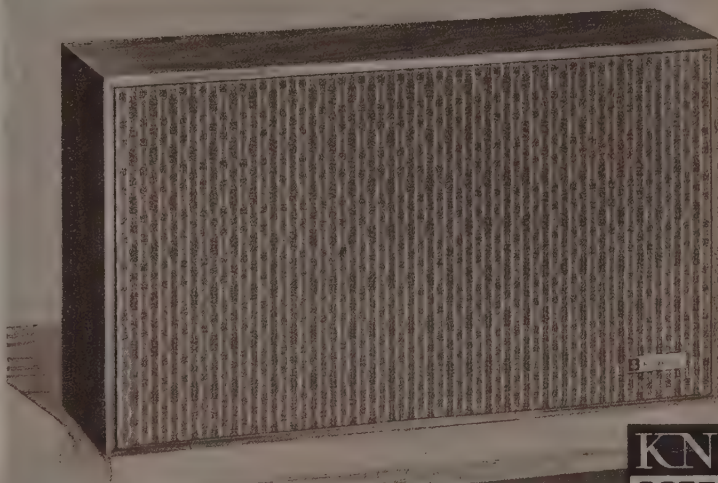
High-Compliance Speaker System

MODERN STYLING . . . 4-WAY, 4-SPEAKER SYSTEM

Beautifully on Tables,
Type of Rack or Bench;
Snugly on Shelves and
nities, as Well.

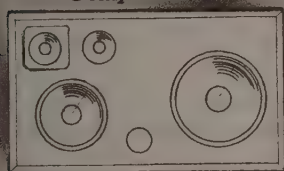


so Compact and Neat,
You Can Put It Anywhere
You Would Hang a Picture;
Can Be Recessed in Wall
Niche, too.



KN
2275

*Perfectly Integrated
Components!*



You get splendid sound from the KN-2275 because its audio reproducing components are specifically made to the enclosure, forming a perfectly integrated speaker system.

FITS VIRTUALLY EVERYWHERE

As Low As

\$75⁹⁵

each in pairs

- Employs Four Speakers to Give Best Sound
- Slender Silhouette—Just 6½ Inches Deep
- Powerful Performer—Easily Handles up to 30 Watts of Program Material
- Rich-Looking Oiled Walnut Finish

Functionally designed...magnificently engineered...a convincing example of Knight hi-fi leadership that achieves new goals in neat, space-saving layout and full-fidelity sound...all at modest cost. The KN-2275 is a 4-way system with four perfectly balanced speakers, a precision duct, and acoustically correct enclosure—all critically tuned like a fine musical instrument. The delightful result: orchestral passages are reproduced with pure tones to delight even the most demanding musician and hi-fi connoisseur.

Solidly constructed of ¾" hardwood for remarkable durability and resonance-free performance, the KN-2275 is finished on four sides in oiled walnut veneer. The matching grille cloth is acoustically transparent to provide free passage of high frequencies. For a thrilling new listening experience, use two in your stereo music system—you'll be positively delighted with the tremendous sound quality they provide.

These operating components make the KN-2275 sound so good: massive 10" high-compliance woofer with ¾" cone excursion and 1-lb. ceramic magnet; 8" cone-type mid-range with enclosed back; 3½" cone-type treble radiator; and a dome, compression-type UHF tweeter with level control for sparkling highs. 13½x24x6½". Wt., 41 lbs.

95 DU 270-D. \$5 Monthly. **EACH 79.95**
Buy Two and Save \$8.00. **Two or More, EACH 75.95**

Buy Right—Buy Knight! **ALLIED 171**

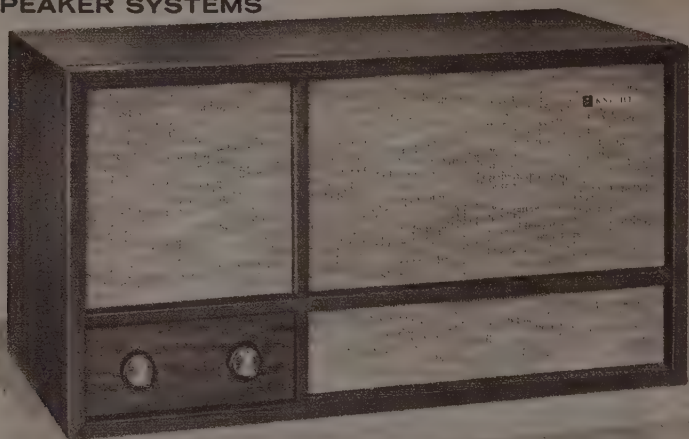
KN-2275 SPECIFICATIONS
Frequency Response: 30 to 20,000 cps.
Woofer: 10" high-compliance with 1-lb. ceramic magnet; 8750 gauss flux density; 1½" voice coil.
Mid-Range: 8" cone-type with 1.73 oz. Alnico V magnet and sealed back; 8350 gauss flux density; 1" voice coil.
Tweeter: 3½" cone-type with sealed back; 1.47 oz. Alnico V magnet.
Crossover: Dome-type, compression-driven with 4.64 oz. Alnico V magnet.
Frequency: Electrical, 600, 4000 and 10,000 cps.
Power: 30 watts (use with amplifiers rated up to 60 watts peak per channel).
Impedance: 8 ohms.



KNIGHT

HIGH-FIDELITY SPEAKER SYSTEMS

Deluxe Shelf Speaker System



**FEATURES 12"
ACOUSTIC
SUSPENSION
WOOFER**



**OUR
WIDEST
RANGE
SPEAKER
SYSTEM!**

\$94⁹⁵

Each in Pairs

KNIGHT KN-2300 3-WAY SPEAKER SYSTEM

A triumph in audio reproduction, the KN-2300 Deluxe 3-Way Speaker System offers perfectly-integrated components for the ultimate in music listening. Distinctive in appearance, its handsome exterior features expertly-finished edges, mitred corners, and the finest oiled walnut furniture veneer. Solid $\frac{3}{4}$ " hardwood construction provides high durability and virtual freedom from resonant peaks.

The special design 12" woofer employs acoustic suspension principle—a high-compliance cloth cone in a sealed enclosure reproduces even the lowest tones of orchestral passages with magnificent realism. The important middle frequencies are smoothly channeled to the 5" mid-range speaker that provides a sparkling clarity and a true sense of "presence." A horn-type tweeter reproduces the high frequencies beyond the audible limit and disperses them over a wide listening area.

Two level controls, conveniently front-mounted on walnut panel, let you adjust "presence" and "brilliance" to suit your personal taste and room listening acoustics. Handsome grille cloth is accented by a solid walnut frame and ribs for truly balanced styling. Each unit is carefully assembled, then tuned and critically tested—further proof of the KN-2300's fine craftsmanship. Finished on all four sides. Size, $13\frac{1}{8} \times 24\frac{3}{4} \times 12$ ". Shpg. wt., 47 lbs. Shipped express only.

95 DZ 215-D. \$5 Monthly..... 99.95

BUY A PAIR FOR STEREO AND SAVE

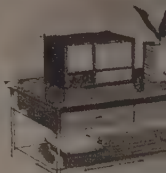


Pocket big \$10.00 savings! For a really thrilling new listening experience, use two KN-2300's for stereo. Their sound is unexcelled. 94 lbs. Shipped express only. \$10 Monthly

95 DZ 215-D. 2 OR MORE, EA. 94.95

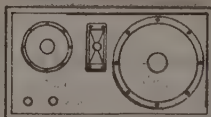


Fit on Shelves



Fit on Table

Unlimited Placement Possibilities!



**12" WOOFER
5" MID-RANGE
180° DISPERSION TWEETER**

KN-2300 SPECIFICATIONS

Frequency Response: 25 to beyond 20,000 cps

Woofer: 12" with $1\frac{1}{2}$ -lb. ceramic magnet. Flux density, 12,000 gauss. 2" voice coil, cloth cone support. Response, 25-800 cps.

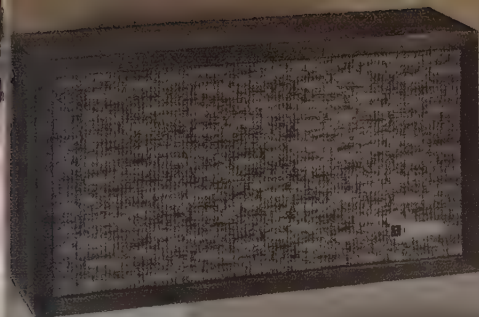
Mid-Range: 5" cone with 6.8-oz. Alnico V magnet. Flux density, 12,500 gauss. $\frac{3}{4}$ " voice coil, foam support. Response, 800-5000 cps.

Tweeter: 180° dispersion horn with 3.16-oz. Alnico V magnet. 1" voice coil. Response beyond 20,000 cps.

Crossover: 800 and 8000 cps with level controls for each range.

Capacity: 30 watts (use with stereo amplifiers up to 60 watts per channel).

Rated Impedance: 8 ohms.



Three-Way Design
Features Coaxial
Woofer Plus a Com-
pression-Type VHF
Tweeter in a Spe-
cial Compartment



KN
2222

Each

\$29⁹⁵

Two For **\$56⁹⁰**

KNIGHT

HIGH-FIDELITY
SPEAKER SYSTEMS

Economy Shelf Speaker Systems

PERFORMANCE AND
STYLE AT LOW PRICES

KN
281



Each

\$49⁹⁵

Two For **\$96⁹⁰**

Two-Way Design:
High-Compliance
10" Woofer, Two
3½" Radiator
Tweeters

NEW KN-2222 DELUXE SPEAKER SYSTEM

The best looking, best sounding 3-way shelf speaker system you can get at anywhere near this tremendously low price. Just right for moderately priced stereo music systems—or as a truly deluxe extension speaker—provides a rich, full sound that's a pleasure to hear. Perfectly balanced components include an efficient 8" dual-cone woofer with a 6-oz. ceramic magnet and 1" voice coil, plus a special compression horn-loaded tweeter with 1" voice coil and capacitor-type crossover. Components are precisely mounted in a carefully designed infinite-baffle enclosure. Tweeter is mounted in a special acoustically isolated compartment—assures complete freedom from annoying speaker-inter-action distortion. Attractively styled enclosure is constructed of genuine, hand-rubbed oiled walnut veneer, with contrasting, acoustically-transparent grille cloth. Size, only 10x19x5". Shpg. wt., 20 lbs.

\$5 DU 216-D. \$5 Monthly..... 29.95

BUY A PAIR AND SAVE \$3.00!..... 2 OR MORE, EACH 28.45

KN-281—OUR BEST 2-WAY SPEAKER SYSTEM

Great performance and ultra-thin, modern styling highlight this outstanding speaker system. Only 6½" deep, the KN-281 delivers superb sound, equal to that of many speaker systems that take up far more room—and cost much more! Uses a 10" high-compliance woofer with long ¾" cone excursion and powerful ½-lb. Alnico V magnet; two 3½" direct-radiator tweeters with enclosed backs; acoustically-transparent complementary grille cloth; and a precision ducted port enclosure. Inner components, enclosure and port critically tuned, like a fine musical instrument, for lowest distortion and uniform response. A level control on the rear panel lets you adjust high-frequency balance to suit your personal taste and room acoustics. Handsome ¾" hardwoods have hand-rubbed oiled-walnut veneer that blends with any room decor. Size, 13½x23¾x6½". 21 lbs.

\$5 DU 265-D. \$5 Monthly..... 49.95

BUY A PAIR AND SAVE \$3.00!..... 2 OR MORE, EACH 48.45

KN-2222 SPECIFICATIONS

Frequency Response: 60 to 18,000 cps.

Woofer: 8" cone with 6 oz. ceramic magnet. Flux density, 9000 gauss. 1" voice coil. Response: 60-4000 cps.

Tweeter: Compression horn-loaded type with 1½-oz. Alnico V magnet. Flux density, 7000 gauss. 1" voice coil. Ring-type diaphragm. Response all the way to 18,000 cps.

Crossover Network: Resistor-Capacitor type at 4000 cps.

Capacity: 15 watts (may be used with stereo amplifiers of up to 30 watts per channel).

Rated Impedance: 8 ohms.

KN-281 SPECIFICATIONS

Frequency Response: 35 to 15,000 cps.

Woofer: 10" cone with ½-lb. Alnico V magnet. Flux density, 7,100 gauss. 1½" voice coil, ¾" cone excursion. Response: 35-2000 cps.

Tweeters: two 3½" direct-radiator types with 1.47-oz. magnets and enclosed backs. ⅞" voice coils. Response all the way to 15,000 cps.

Crossover: Resistor-Capacitor type at 2000 cps, with level control.

Capacity: 30 watts (may be used with stereo amplifiers rated up to 60 watts per channel).

Rated Impedance: 8 ohms.

No Money Down With Allied's Credit Fund Plan

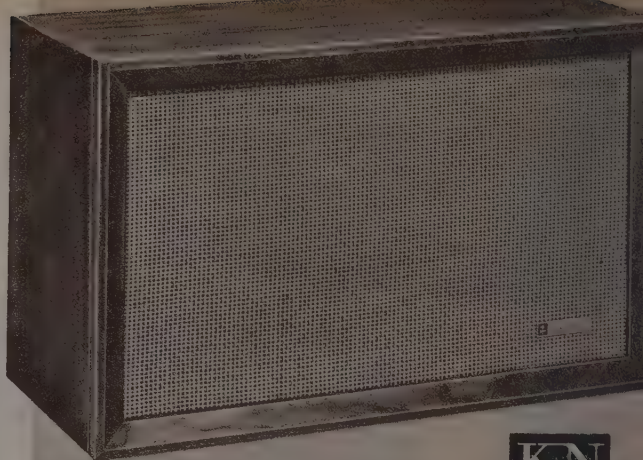
ALLIED 173



Shelf-Size 12" Speaker Systems

**ENHANCE ROOM DECOR,
SAVE MONEY AND SPACE
ON SPEAKER SYSTEMS
GIVING GREAT SOUND**

**... with your CHOICE
of 12" Knight Speakers—
or Use with Any Speaker**



**Vented-Port Design and
3/4" Heavy Paneling
Bring Out Everything
a Speaker Has to Offer**



**2-Way KN-820
and KN-1286
Enclosure**

\$44.40

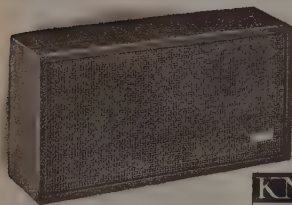
Each in Pairs



**3-Way KN-830
and KN-1286
Enclosure**

\$53.90

Each in Pairs



NEW!

\$19.95

\$5 monthly

**Ready
to Use**

Save on 12" Custom Systems

KN-820 INSTALLED IN KN-1286 ENCLOSURE

Knight's lowest-priced 12" speaker system! Economical speaker system offers fine hi-fi sound. Knight's KN-820 12" dual-cone speaker (see page 179) and KN-1286 enclosure (described below) make a great matched pair. Shpg. wt., 40 lbs.

95 DU 351-D. KN-820 and KN-1286. Shipped Express. 46.90
Save \$5.00 on a Pair. 2 or More. **EACH 44.40**

KN-830 INSTALLED IN KN-1286 ENCLOSURE

You get deluxe sound-quality with this budget-priced speaker system. The KN-830 12" 3-way speaker (see page 178) in the KN-1286 enclosure delivers amazing high-fidelity sound. 40 lbs.

95 DU 352-D. KN-830 and KN-1286. 56.90
Save \$6.00 on a Pair. 2 or More. **EACH 53.90**

KNIGHT KN-1286 VENTED-PORT ENCLOSURE

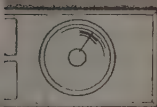
Budget-priced speaker enclosure featuring deluxe construction details, space-saving size and smart appearance. Accepts 12" speakers, including most 2 and 3-way types. Has custom-fitted fiberglass acoustic lining, heavy 3/4" paneling and vented-port cabinet design for extended range, natural sounding bass. All four sides are finished in genuine oiled walnut veneer. Wired terminal strip for fast, easy hook up. 14 3/4 x 24 x 12". 30 lbs.

95 DU 531-D. \$5 Monthly. 29.95
Save \$3.00 on a Pair. 2 or More. **EACH 28.45**

LOWEST-COST KNIGHT 8" 2-WAY SYSTEM

Excellent speaker system for economy music systems, or for use as an extension speaker. Boasts an 8" speaker with 10-oz. ceramic magnet, and 3 1/2" cone tweeter. Result: 50 to 14,000 cps of smooth sound. Crossover, 2500 cps. 1/2" plywood construction. Grained walnut-leatherette covering; beige cane grille. 15 watts. 8 ohms. 10x20x5 1/2". Convenient terminal strip. Shpg. wt., 11 1/2 lbs.

95 DX 357-D. \$5 Monthly. 19.95
Save \$2.00 on a Pair. 2 or More. **EACH 18.95**



*Small Enough for Wall,
Shelf or Floor—Solid
¾" Paneling Ensures
Clean, Natural Bass*

KN
1284A

 **KNIGHT**

Shelf-Size 8" Speaker Systems

**LOW-COST HI-FI
SPEAKER SYSTEMS—
SPEAKERS INSTALLED
READY TO PLAY!**

**Choose from Three
Value-Packed Knight
8" Hi-Fi Speakers**

Save on 8" Custom Systems

KN-809 INSTALLED IN KN-1284A ENCLOSURE

A good-looking and good-sounding speaker system, ready to play the moment you receive it. The Knight KN-809 8" speaker (see page 181) and the Knight KN-1284A speaker enclosure (described below) are tops for low-cost music systems. 18 lbs.

5 DU 358-D. KN-809 and KN-1284A. \$5 Monthly..... 29.90
Save \$3.00 on a Pair. 2 or More..... EACH 28.40

KN-819 INSTALLED IN KN-1284A ENCLOSURE

Knight's custom coaxial, budget-priced speaker system. Knight KN-819 8" coax speaker (see page 181) and Knight KN-1284A enclosure (described below) offer excellent music reproduction. Connects to your amplifier in just a minute or two. 20 lbs.

5 DU 987-D. KN-819 and KN-1284A. \$5 Monthly..... 35.90
Save \$4.00 on a Pair. 2 or More..... EACH 33.90

KN-839 INSTALLED IN KN-1284A ENCLOSURE

At a surprising low price, enjoy true hi-fi music reproduction with this marvelous speaker system. Ready to play, the deluxe Knight KN-839 8" coax speaker (see page 181) and Knight KN-1284A speaker enclosure work together to deliver 45 to 18,000 cps of exciting sound! You'll be astonished by its natural quality throughout the entire range. Shpg. wt., 21 lbs.

5 DU 359-D. \$5 Monthly..... 39.90
Save \$5.00 on a Pair. 2 or More..... EACH 37.40

KNIGHT KN-1284A 8" COMPACT ENCLOSURE

An outstanding shelf-size speaker enclosure for budget-priced music systems and for extension-speaker use. Makes music sound great! Can be used in highboy or lowboy positions . . . and just 10x20x9". Attractively finished on all four sides in hand-rubbed oiled walnut veneer. Heavy ¾" all-wood paneling with matching beige cane cloth. Fiberglas acoustic lining. Terminal strip. 15 lbs.

5 DU 476-D. \$5 Monthly..... 19.95
Save \$2.00 on a Pair. 2 or More..... EACH 18.95

**KN-809 Speaker
in KN-1284A
Enclosure**

\$2840

Each in Pairs



**KN-819 Coaxial
in KN-1284A**

\$3590



**KN-839 Coaxial
in KN-1284A
Enclosure**

\$3740

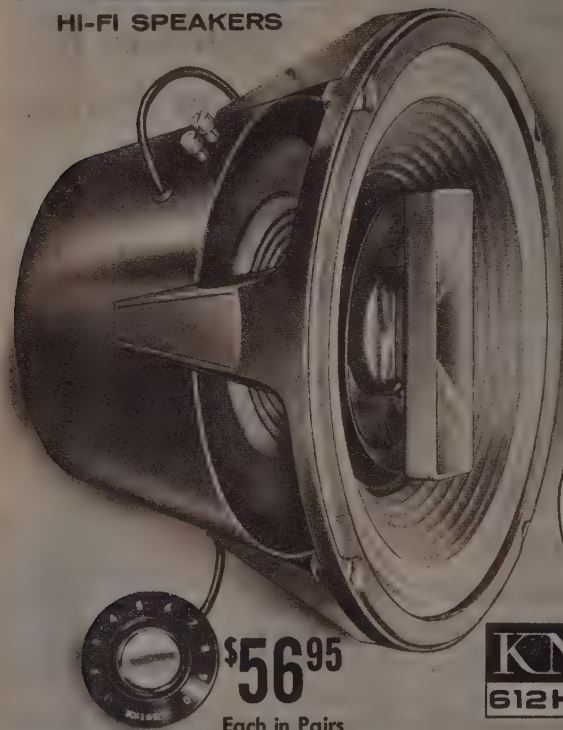
Each in Pairs





KNIGHT

HI-FI SPEAKERS



\$56⁹⁵

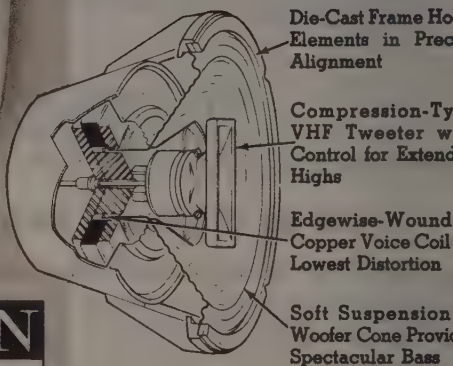
Each in Pairs

KN
612HC

KN-612HC 12" 3-Way Speaker

**ALLIED'S BEST SELLING
12" HI-FI SPEAKER**

**COMPARE THESE
OUTSTANDING FEATURES
COMPARE PRICE!**



Die-Cast Frame Holds Elements in Precise Alignment

Compression-Type VHF Tweeter with Control for Extended Highs

Edgewise-Wound Copper Voice Coil for Lowest Distortion

Soft Suspension Woofer Cone Provides Spectacular Bass

KN-612HC 12" 3-WAY SPEAKER

Our finest 12" speaker, the marvelous KN-612HC is convincing evidence of superior Knight design. Gives you extra-solid, distortion-free bass that simply must be heard to be believed, balanced mid-range and clear, sparkling highs. No other speaker at this price can even come close to duplicating the sound quality of this magnificent performer.

12" high-compliance woofer with efficient 4.6-lb. ceramic magnet provides startlingly realistic low-frequency response in any type of enclosure. The whizzer cone, with 2000 cps, mechanical crossover, lends mid-range "presence" for concert-hall realism. Electrical crossover channels all frequencies above 3500 cps to the compression-type VHF tweeter for extended treble response to 19,000 cps!

Rigid cast-alloy frame holds precision copper-ribbon voice coil and moving elements in perfect alignment. Brilliance control on 36" cable lets you adjust treble to suit your listening taste. Convenient binding-post terminals. 32 lbs.

95 DU 201-D. \$5 Monthly..... 59.95

SAVE \$6.00 ON PAIR..... 2 OR MORE, EACH 56.95

RECOMMENDED ENCLOSURES

For best results, we recommend installing the KN-612HC in either the Knight KN-1286 (page 174) or the Knight KN-1267A (page 202).



KN-612HC SPECIFICATIONS



12" Woofer



Mid-Range Cone



Horn Tweeter

Free-Air Resonant Frequency: 40 cps.

Overall Frequency Response: 35 to 19,000 cps.

Crossover Frequencies: Mechanical, 2000 cps. Electrical, 3500 cps.

Power Capacity: 25 watts (may be used with amplifiers of up to 50 watts per channel).

Magnet Weight: Woofer, 4.6 lbs. Tweeter, 6.8 oz.

Magnet Material: Woofer, ring-type ceramic. Tweeter, Alnico V.

Flux Density: Woofer, 14,200 gauss. Tweeter, 13,000 gauss.

Voice Coil: Woofer, 2 1/2" edgewise copper ribbon. Tweeter, 1" edgewise copper ribbon.

Rated IKA Sensitivity: 53 db.

Rated Impedance: 16 ohms.

Speaker Mounting Depth: 7 1/4".

Featuring New
Compression Tweeter
For Better Dispersion
of High Frequencies



HI-FI SPEAKERS

KN-800HC 12" 3-Way Speaker

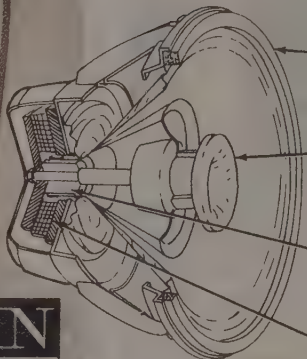
NEW HIGH-COMPLIANCE
VERSION OF POPULAR
KNIGHT MODEL KN-800A



\$37⁹⁵

Each in Pairs

KN
800 HC



Rigid Die-Cast Frame
Holds Elements in
Precise Alignment

New Compression-
Type Tweeter More
Widely Disperses
Highs

Precision Voice Coil
Accurately Centered
for Low Distortion

Deluxe Ceramic Mag-
net Develops Power-
ful Concentrated Flux

NEW KN-800HC 12" 3-WAY SPEAKER

new version of an established favorite now gives you even smoother, more natural sound—sound that cannot be equalled by any other speaker at its price. What's more, the KN-800HC gives outstanding reproduction in any enclosure—and performs well with low-power hi-fi amplifiers.

The three sound-rating elements—a 12" high-compliance bass cone, axially-mounted mid-range cone, and a compression-type tweeter—have two crossovers for distortionless audio. A mechanical 2000 cps crossover separates bass and mid-range units, and a capacitor-type crossover at 3500 cps gives smooth transition to the high frequencies. You hear perfectly-blended music without audio peaks or breaks.

A special ceramic magnet develops a powerful, concentrated flux for solid bass and distinct mid-range. Newly designed tweeter more widely disperses velvety "highs". Tweeter level control lets you adjust treble response. Convenient binding-post terminals. Shpg. wt., 15 lbs.

Model DX 255-D. \$5 Monthly..... **39.95**
SAVE \$4.00 ON PAIR..... 2 OR MORE, EACH 37.95

RECOMMENDED ENCLOSURES

For best results, we recommend installing the KN-800HC in either the Knight KN-1267A (page 202) or the Knight KN-1286 (page 174).



KN-800HC SPECIFICATIONS



12" Woofer



Mid-Range Cone



Tweeter

Free-Air Resonant Frequency: 80 cps.

Overall Frequency Response: 35 to 15,000 cps.

Crossover Frequencies: Mechanical, 2000 cps. Electrical, 3500 cps.

Power Capacity: 25 watts (may be used with stereo amplifiers rated up to 50 watts per channel).

Magnet Weight: Woofer, 1 3/4 lbs. Tweeter, 4.64 oz.

Magnet Material: Woofer, ring-type ceramic. Tweeter, Alnico V.

Flux Density: Woofer, 12,650 gauss. Tweeter, 13,500 gauss.

Voice Coil: Woofer, 1 1/2". Tweeter, 1".

Rated IKA Sensitivity: 53 db.

Rated Impedance: 8 ohms.

Speaker Mounting Depth: 8".



KNIGHT

HIGH FIDELITY SPEAKERS

Budget-Priced 12" 3-Way Hi-Fi Speaker

**ENJOY ALL THE BENEFITS
OF TRUE 3-WAY DESIGN AT
ROCK-BOTTOM COST!**

**Rigid Die-Cast Frame
Securely Holds All
Moving Elements in
Precise Alignment**

**13-Ounce Magnet is
Ceramic Type for
Higher Efficiency and
Better Bass Response**

**Edgewise-Wound 2"
Copper-Ribbon Voice
Coil Assures Minimum
Distortion, Long Life**

**Compression-Type
VHF Tweeter Has Built
In Electrical Crossover
and a Level Control—
Complete with 36" Cable**

**With Level
Control**

\$25⁴⁵ Each in Pairs

**KN
830**

KN-830 3-WAY 12" SPEAKER

Our lowest-priced 3-way 12" speaker! Incorporates all the latest developments in acoustic engineering to give you authentic, low-distortion frequency response for stunning full-fidelity sound. Although it includes many of the features found only in the most expensive 3-way speakers, it is offered to you at a price far below that of many 2-way units.

A heavy die-cast frame and fiberglass coil-form keep the edgewise-wound voice coil in precision alignment for years and years of faithful service. Also, the long-throw voice coil design greatly reduces distortion—especially at high listening levels where low distortion figures are a must! The 12" bass cone is carefully decoupled from the mid-range cone by a mechanical crossover, so that each unit acts independently. There is no compromise in design—you enjoy extra-powerful bass, plus a crystal-clear mid-range for an exciting feeling of "presence."

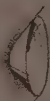
The very-high frequency (VHF) driver gives a uniform distribution of highs for excellent treble reproduction throughout the room—a vital characteristic for proper balance in stereo music systems. A high-frequency control with 36" cable permits adjusting the tweeter volume to suit room acoustics and your personal taste. Binding post terminals. Shpg. wt., 14 lbs.

95 DX 204D. \$5 Monthly.....26.95
Save \$3.00 on Pair, 2 or More.....EACH 25.45

KN-830 SPECIFICATIONS



**12" Woofer
Cone**



**Mid-Range
Cone**



**VHF
Tweeter**

Free-Air Resonant Frequency: 60 cycles per second
Overall Frequency Response: 40 to 18,000 cps
Crossover Frequencies: Mechanical, 2000 cps
Electrical, 3500 cps
Power Capacity: 20 watts program (use with amplifiers to 40 watts per channel).
Magnet Weight: 13 oz.
Magnet Material: Ceramic
Flux Density: 11,500 gauss
Voice Coil Diameter: Woofer, 2"; Tweeter, 1"
Rated EIA Sensitivity: 45 db
Rated Impedance: 8 ohms
Speaker Mounting Depth: 1/2"

RECOMMENDED ENCLOSURES TO HOUSE KN-830 SPEAKERS

KN-1901A
See Page 204



KN-1286
See Page 174



KN-1267A
See Page 20



Cone Design . . .
 Richer Bass
 Extended-Range
 Response



\$15⁹⁵

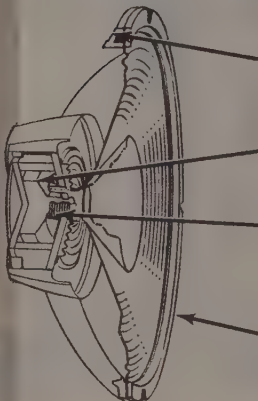
Each in Pairs



HI-FI SPEAKERS

Our Lowest-Priced 12" High-Fidelity Speaker

MORE FOR YOUR MONEY—AND IT'S PERFORMANCE-PROVEN!



Rigid Die-Cast Frame
 Securely Holds All
 Moving Elements in
 Precise Alignment

¾-Pound Magnet is
 Ceramic Type for
 Higher Efficiency and
 Better Bass Response

Edgewise-Wound 2"
 Copper-Ribbon Voice
 Coil Assures Minimum
 Distortion, Long Life

Shallow-Frame Design
 Permits Easy Custom
 Mounting in Cabinets,
 Consoles and Walls

KN-820 12" HI-FI SPEAKER

the most for your hi-fi dollar with this magnificent gain! The Knight KN-820 is acknowledged throughout the world of high-fidelity as the economy leader in efficient and unusually dependable performance. And, priced so low, you can buy two of these excellent speakers for less than you would pay for most single speakers of comparable quality.

Extended-range audio reproduction, without shrillness, is achieved by its proven dual-cone design. The big 12" woofer delivers surprisingly solid bass, and the smaller mid-range cone efficiently handles the important mid-frequencies and the upper audio range. A mechanical crossover channels all frequencies above 4500 cps to the mid-range radiator. Another highlight is the extremely shallow-frame design of the speaker—it's only 3 1/2" deep—permitting easy custom installation in walls, "thin-line" enclosures, cabinets, and consoles. Well-suited for wall-baffle mounting, too.

Other "big features" are: edgewise-wound copper ribbon 2" voice coil; molded fiberglass coil form sealed against dust for outstanding durability; permanent centering of all sound-reproducing elements. Binding post terminals provide solderless connections for speaker wires. Shpgg. wt., 11 lbs.

KN-820D 16.95
 \$2.00 on Pair. 2 or More EACH 15.95

KN-820 SPECIFICATIONS



Rugged 12"
 Woofer
 Cone



"Whisper"
 Cone for
 Highs

Free-Air Resonant Frequency: 60 cycles per second
 Overall Frequency Response: 40 to 13,000 cps
 Crossover Frequency: Mechanical, 4500 cps
 Power Capacity: 20 watts program (use with amplifiers up to 40 watts per channel).
 Magnet Weight: 13 ounces
 Magnet Material: Ceramic
 Flux Density: 11,500 gauss
 Voice Coil Diameter: 2"
 Rated EIA Sensitivity: 43 db
 Rated Impedance: 8 ohms
 Speaker Mounting Depth: 3 1/2".

RECOMMENDED ENCLOSURES TO HOUSE KN-820 SPEAKERS

KN-1901A
 See Page 204

KN-1286
 See Page 174

KN-1287A
 See Page 202

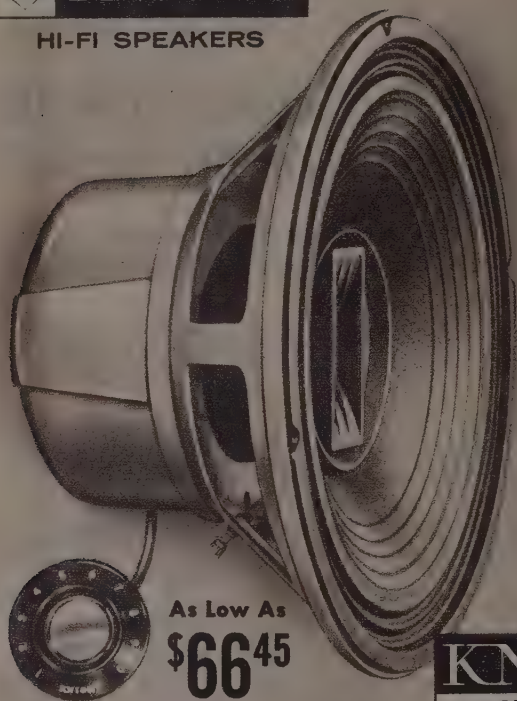


Purchase Your Knight Speakers on Our Credit Fund Plan

ALLIED 179



HI-FI SPEAKERS



As Low As

\$66⁴⁵

Each in Pairs

KN
615 HC

Deluxe 15" 3-Way Hi-Fi Speaker

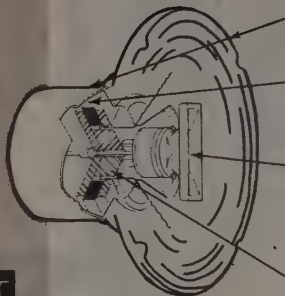
**KNIGHT'S MOST POPULAR
15" HI-FI SPEAKER —
NOW SELLING FOR \$20 LESS
THAN LAST YEAR**

Rigid Cast-Alloy
Frame Holds All
Moving Elements in
Precise Alignment

4-lb. 9-Oz. Ceramic
Magnet for Higher
Efficiency

Compression-Type
Tweeter, Crossover
and Level Control

Edge-Wound 2½"
Voice Coil—
Lowest Distortion



KNIGHT KN-615HC 15" 3-WAY SPEAKER

Your best buy ever at this new low price, the KN-615HC gives you extra-solid, distortion-free music reproduction that must be heard to be believed. No other speaker at this price can even come close to duplicating the quality of this magnificent performer.

Immense 15" woofer gives you the most authentic bass possible—in any type of enclosure. The whizzer cone, with a mechanical crossover at 2000 cps, lends added presence to the midrange for true concert-hall realism. A built-in electrical crossover channels all frequencies above 3500 cps to the compression-type VHF tweeter for clear, clean treble response all the way to 19,000 cps!

Precision copper-ribbon voice coil, and other moving elements, are kept in perfect alignment by the cast-alloy frame. Calibrated brilliance control lets you adjust high frequency response to suit room acoustics and your listening taste. Binding post terminals. 15½" dia., 9½" deep. 32 lbs.

95 DU 202-D. \$5 Monthly.....EACH 69.95
Save \$7 On Pair. 2 or More.....EACH 66.45

RECOMMENDED ENCLOSURES

For best results, install the Knight KN-615HC in the Knight KN-1275A (p. 203), or Knight KN-1267A (p. 202) enclosures.



KN-615HC SPECIFICATIONS



Huge 15"
Woofer
Cone



Mid-Range
Speaker
Cone



Compression
VHF
Tweeter

Free-Air Resonant Frequency: 25 cps.

Overall Frequency Response: 25 to 19,000 cps.

Crossover Frequencies: Mechanical, 2000 cps. Electrical, 3500 cps.

Power Capacity: 50 watts (may be used with stereo amplifiers of up to 80 watts per channel).

Magnet Weight: Woofer, 4-lb. 9-oz. Tweeter, 6.8 oz.

Magnet Material: high-quality ceramic.

Flux Density: 14,800 gauss.

Voice Coil: Woofer, 2½" edgewound copper ribbon. Tweeter, 1" edgewound aluminum ribbon.

Rated EIA Sensitivity: 53 db.

Rated Impedance: 16 ohms.

Speaker Mounting Depth: 9½".

KN
39

NEW!



- Rigid Die-Cast Frame**
- Wide-Dispersion**
- Compression Tweeter**
- Ceramic Woofer Magnet**
- 2" Woofer Voice Coil**

KNIGHT
HI-FI SPEAKERS

Low-Cost High-Quality High-Fidelity Speakers

DELUXE KN-839 8" 3-WAY SPEAKER

\$18⁴⁵

- Wide 45 to 18,000 cps Response
- 10-oz. Ceramic Woofer Magnet
- Handles 30 Watt Peaks

Each In Pairs

New, superb-quality hi-fi speaker gives you performance rivaling far more expensive units. Reproduces the full dynamic range—electrically and acoustically independent woofer and tweeter produce powerful bass and clear highs—in any enclosure.

The 8" woofer has a heavy 10-oz. ceramic magnet and 2" voice coil for distortion-free sound. Bore-fire compression-type tweeter widely disperses silky-smooth highs without harshness. Die-cast frame holds all components in perfect alignment.

Resonance: 60 cps. **Response:** 45 to 18,000 cps. **Crossover:** mechanical at 2000 cps; capacitor type at 3500 cps. **Impedance:** 8 ohms. **Power Handling Capacity:** 15 watts, 30 watts peak. **Mfg. Depth:** 3⁷/₈". 8 lbs. **95 DX 207-D. \$5 Monthly. EACH 19.95**
Save \$3 On Pair. 2 or More. EACH 18.45

KN-809 8" HI-FI SPEAKER

gives you fine sound at low cost. Provides melior bass, clear mid-range, plus authentic highs. Has a 10-oz. ceramic magnet, die-cast frame, and compression-type hyperbolic cone. Use it for low-cost music systems, as an extension speaker, or as a high-quality mid-range speaker in two or three-speaker systems. Great for use in institutional background music systems. **Response:** 50-12,000 cps. **Capacity:** 15 watts. **Impedance:** 8 ohms. **Mounting Depth:** 3⁵/₁₆". 4 lbs.

95 DX 251-D. EACH 9.95
or More. EACH 9.45

KN-819 8" COAX SPEAKER

smooth, natural sound for pleasing music or voice reproduction highlights the famous KN-809 speaker. Has true coaxial design—10-oz. ceramic magnet for rich bass, direct-radiator tweeter for mid-range and highs with full realism. Heavy-duty die-cast frame assures perfect centering of speaker elements. **Response:** 50 to 14,000 cps. **Crossover:** capacitor-type at 3000 cycles. **Capacity:** 15 watts. **Impedance:** 16 ohms. **Mounting Depth:** 3⁵/₁₆". Shpg. wt., 5 lbs.

95 DX 252-D. EACH 15.95
or More. EACH 14.95



Each
in Pairs
\$9⁴⁵

Each
in Pairs
\$14⁹⁵

Tops in economy, these hi-fi speakers are right for low-cost music systems—also for upgrading your radio or phone. See enclosure, page 175.

KN
819

Electro-Voice Hi-Fi Speakers,

E-V 2-WAY AND 3-WAY 12" HIGH-FIDELITY SPEAKERS

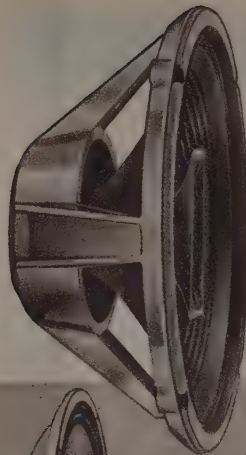
\$5 monthly

\$3136

- 12" Woofer, Mid-Range, VHF Tweeter
- Indox Ceramic Magnet In Die-Cast Frame
- Clean Response—40-18,000 Cps
- Built-In Crossover At 3500 Cps

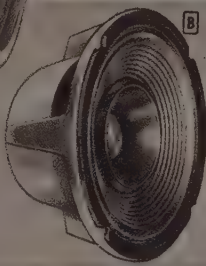
EXCEPTIONAL BUY—LT12 12" 3-WAY HI-FI SPEAKER

The LT12 offers extended bass response from a 12" woofer cone, outstanding clarity from the exclusive Radax mid-range cone, and pleasing treble through the use of an integral Sonophase VHF horn-type tweeter. Other exclusive features: a patented, 12-ounce ceramic "indox" magnet that is comparable to heavier magnets of conventional design; 2½" edge-wise-wound ribbon-type voice coil; and a rigid die-cast frame. The deluxe features make the LT12 an exceptional speaker buy. Response: 40-18,000 cps—with low distortion. Mechanical and electrical crossover at 2000 and 3500 cps, respectively. Brilliance control adjusts tweeter output-level. Total flux, 72,500 maxwells. Resonance, 65 cps. EIA sensitivity, 45 db. Power capacity, 20 watts. Impedance, 8 ohms. Depth, 5¼". Shpg. wt., 12 lbs. 71 DX 120. \$5 Monthly.....31.36



\$2058

\$5 monthly



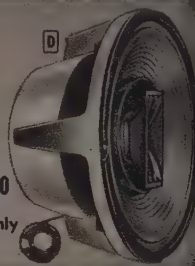
\$3685

\$5 monthly



\$6860

\$5 monthly



\$6860

\$5 monthly

SUPERIOR QUALITY 12" SPEAKERS, PRICED TO FIT ANY BUDGET

A LS12 DUAL-CONE 12" SPEAKER

Low-cost 12" high-fidelity speaker that's ideal for moderately priced stereo music systems where full-range reproduction is desired. The LS12 is also acoustically perfect for use in the Electro-Voice "Marquis" and "Aristocrat" enclosures shown elsewhere in this section.

The LS12 utilizes many of the superior features of the LT12 above, plus a dual-cone design that provides an unusually clean response of 40 to 14,000 cps. The tough one-piece woofer cone has a resonant frequency of 65 cps, for powerful yet boom-free bass. Unlike many speakers in this price class, the LS12 has a heavy-duty frame that guarantees permanent centering of all elements for a lifetime of distortion-free sound.

Low-silhouette frame even permits mounting in wall or ceiling. Total flux, 72,500 maxwells. Power capacity, 20 watts. Impedance, 8 ohms. Mechanical crossover at 4500 cps. Depth, only 3¾". 10 lbs.

71 DX 121. \$5 Monthly.....20.58

B SP12B ECONOMY 12" SPEAKER

Moderately priced full-range coaxial speaker with a high-efficiency 1½ lb. ceramic magnet. Has the same Radax mid-range cone as the SP12, below, for treble extending to 15,000 cps; bass response descends to 35 cps. Has built-in mechanical crossover at 4500 cps. Total flux, 82,500 maxwells. Cone resonance, 40-50 cps. Power capacity, 30 watts. Impedance, 16 ohms. Depth, 6¾". Shpg. wt., 15 lbs.

71 DX 131. \$5 Monthly.....36.85

C SP12 DELUXE 12" SPEAKER

12" coaxial speaker for high-quality music systems featuring powerful 3-lb. Alnico V magnet, specially treated woofer cone for extended-range bass, Radax-type high-frequency radiator. Smooth response from 30-15,000 cps. Total flux, 270,000 maxwells. Cone resonance, 35-45 cps. Crossover, 4000 cps. Power capacity, 40 watts. Imp., 16 ohms. Depth, 7½". Shpg. wt., 26 lbs.

71 DU 130. \$5 Monthly.....68.60

D 12TRXB 12" SPEAKER

A fine buy in a 3-way speaker for the critical listener. Three-in-one design gives flawless 35-20,000 cps range with excellent dispersion of treble notes. Employs the SP15B woofer and T35B VHF driver. Total flux, 82,500 maxwells. Cone resonance, 40-50 cps. Crossovers at 2000 and 4500 cps; tweeter level-control. Power handling capacity, 30 watts. Impedance, 16 ohms. Depth, 7". Shpg. wt., 17 lbs.

71 DX 137. \$5 Monthly.....68.60

DELUXE 12TRX 12" SPEAKER

Smaller version of 15TRX, described on next page. Consists of SP12 woofer, integral T35 VHF driver, X36 crossover and AT37 tweeter level control. Frequency response is a dazzling 30-20,000 cps. Total flux, 270,000 maxwells. Equipped with a mechanical crossover at 2000 cps. Power handling capacity, 40 watts. Voice coil impedance, 16 ohms. Depth, 7½". Shpg. wt., 30 lbs.

71 DU 138. \$7 Monthly.....127.40

E-V 8" WIDE-RANGE DUAL-CONE HIGH-FIDELITY SPEAKERS

E NEW MC8 DUAL-CONE 8" SPEAKER

A compact and easy-on-the-budget wider-range speaker designed for installation anywhere—in wall, ceiling or existing cabinet. Provides excellent response through a wide listening range—perfect for economy high fidelity systems. Features dual-cone "Radax" design that provides 120° dispersion, die-cast frame for perfect alignment of all moving parts, heavy ceramic magnet and edge-wise-wound ribbon voice coil for sparkling clean tones. Frequency response, 50-13,000 cps. Power capacity, 12 watts. Cone resonance, 75 db. EIA sensitivity, 46 db. Impedance, 8 ohms. Depth, only 3¾". Shpg. wt., 4 lbs.

71 D 005.....14.70

F L8S DUAL-CONE 8" SPEAKER

A favorite 8" speaker for low-cost music systems and a splendid choice where larger speakers cannot be accommodated. Built to the same high standards as the 12" and 15" units above, the L8S boasts a highly authentic 45-14,000 cps response. Has: long-throw voice-coil for surprisingly powerful bass; Radax mid-range cone: heavy-duty die cast frame; high-efficiency edgewise-wound voice coil; and low-silhouette design for easy custom mounting. Total flux, 70,700 maxwells. Cone resonance, 75 cps. Power capacity, 20 watts. Mechanical crossover at 4500 cps. Impedance, 8 ohms. Depth, 3½". Shpg. wt., 5 lbs.

71 D 124.....19.11

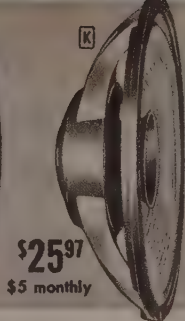


\$1470

\$1911

Engineered for Finest Performance

ElectroVoice



\$9800
\$5 monthly

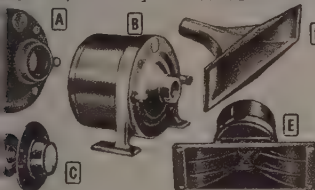


SP15 DELUXE 15" SPEAKER

uperb 15" coaxial speaker offering frequency response from 25 to 15,000 cps. Has 1lb. ceramic magnet. Flux, 270,000 maxwatts. Resonance, 25-35 cps. 40 watts. 16 ohms. 8 1/2" deep. 32 lbs.
DU 132. \$5 Monthly..... 93.10

DELUXE 15TRX 15" SPEAKER

Best 15" 3-way speaker. A deluxe version of the 15TRXB above, this speaker includes the SP15 woofer assembly, plus a T35 driver, X36 L-C crossover and AT37 level-control control. 25-20,000 cps response. 270,000 maxwatts. 4 1/2-lb. magnet. Resonance, 25-35 cps. 40 watts. 16 ohms. 8" deep. 36 lbs.
DU 136. \$8 Monthly..... 151.90



K LS15 15" SPEAKER

A beautifully performing, deluxe version of the LS12 on the preceding page, this popular 15" speaker delivers powerful, stirring bass all the way down to 35 cps. Quality features include: a heavy-duty die-cast frame for precise alignment of critical parts; Radax mid-range cone for a 14,000 cps treble response; plus an edgewound voice coil of precision-flattened ribbon conductor for 18% greater efficiency—the equivalent of up to 5 extra watts of input power! Cones are specially treated to prevent moisture absorption in areas of high humidity. Total flux, 73,000 maxwatts. EIA sensitivity, 46 db. Cone resonance, 50 cps. Capacity, 20 watts. Mechanical crossover at 4500 cps. Impedance, 8 ohms. Depth, 6 1/2". Shpg. wt., 13 lbs.
71 DX 123. \$5 Monthly..... 25.97

71 DX 123. \$5 Monthly..... 25.97

NEW 120TRX "TRIAXIS" LOUDSPEAKER SYSTEM

A revolutionary, perfectly matched 3-way speaker system in a single die-cast panel—requires only one cut-out for mounting. Contains: 12" woofer with 1 1/2-lb. double-flux ceramic magnet; an 800 cps compression horn and mid-range driver; a horn-loaded compression VHF driver featuring a new type of ring diaphragm; and a LC crossover to link all 3 speakers at 800 and 3500 cps. Frequency response covers audio spectrum from 30-20,000 cps. Separate level controls for mid-range and tweeter. Size, 20x13x11". With platinum gray and brushed silver grille. All hardware is concealed. Power capacity, 40 watts. Impedance, 16 ohms. Shpg. wt. 25 lbs.
71 DU 148. \$5 Monthly..... 98.00

71 DU 148. \$5 Monthly..... 98.00

STEP-UP KITS AND ACCESSORIES FOR HI-FI SPEAKER SYSTEMS

T25A MID-RANGE DRIVER. 700-3800 cps. 1-lb. magnet. 30 watts. 16 ohms. 4x1 1/16" 8 1/2 lbs.
D 139. \$5 Monthly..... 49.00

T250 MID-RANGE DRIVER. 700-3800 cps. 3-lb. magnet. 50 watts. 16 ohms. 16x6 1/4x5 1/2". 14 1/2 lbs.
D 140. \$5 Monthly..... 83.30

AT37 LEVEL CONTROL. "L"-pad type. Impedance, 16 ohms. Mahogany-colored. pg. wt., 6 oz.
D 146..... 3.82

8HD DIFFRACTION HORN. For mid-range drivers, above. Size, 15x4 1/2x8 1/4". pg. wt., 4 lbs.
D 141..... 18.62

T35 VHF TWEETER. Response, 3500-20,000 cps. 6.8 oz. magnet. 25 watts. 16 ohms. 5 1/4x2" horn. 3 1/2 lbs.
D 142. \$5 Monthly..... 29.40

CROSSOVER NETWORKS (Not illus.)

T35 VHF TWEETER. Response, 3500-20,000 cps. 6.8 oz. magnet. 25 watts. 16 ohms. 5 1/4x2" horn. 3 1/2 lbs.
D 142. \$5 Monthly..... 29.40

CROSSOVER NETWORKS (Not illus.)

T35 VHF TWEETER. Response, 3500-20,000 cps. 6.8 oz. magnet. 25 watts. 16 ohms. 5 1/4x2" horn. 3 1/2 lbs.
D 142. \$5 Monthly..... 29.40

CROSSOVER NETWORKS (Not illus.)

CROSSOVER NETWORKS (Not illus.)

F MODEL HF1 HIGH-FREQUENCY STEP-UP KIT

Add these top-quality components to any 8", 12" or 15" woofer or extended-range speaker to obtain a moderate-cost two-way speaker system that extends treble response to the limits of the audio spectrum. Also can be used with the MF1 mid-range kit, below, to form a 3-way system. Kit includes: Model TW35 wide-angle horn-type tweeter; Model CR35, 3500-cycle L-C crossover network with level control; wiring; hardware; easy-to-follow instructions. (E.V.'s "Marquis" and "Aristocrat" enclosures even have special cut-outs to further simplify installation.) Tweeter response is crystal-clear from 3500 to 18,000 cps. Tweeter dispersion, 180°. Power capacity, 20 watts. Impedance, 8 ohms. Tweeter, 5 1/4x2x2 3/4"; crossover, 3 1/4x3x2 1/2". 3 lbs.
71 D 128. \$5 Monthly..... 24.50

71 D 113. BB1 Package. Deluxe version of above for 2-way systems, and coax speakers having 3-lb. magnet or greater. Kit includes: T35 VHF driver, X36 crossover, AT37 level control, wiring harness. 5 lbs. \$5 Monthly..... 44.10

G MODEL MF1 MID-FREQUENCY STEP-UP KIT

A package of first-rate mid-range components for making up a 3-way speaker system—assures improved "presence" for natural true-to-life sound quality. Kit includes: Model MR10 treble driver; Model CR10 L-C crossover network with level control; wiring; hardware; and easy installation instructions. Provides 1000-15,000 cps response, 180° dispersion. Power capacity, 20 watts. Impedance, 8 ohms. Horn size, 4" long by 10 1/2" wide, crossover; 3 1/4x3x2 1/2". 8 lbs.
71 DX 129. \$5 Monthly..... 28.42

71 DU 114. BB4 Package. Deluxe version of above for existing LF drivers and coaxial speakers. Kit includes T25A driver, 8HD diffraction horn, X6 crossover, AT37 level control and wiring harness. 16 lbs. \$6 Monthly..... 104.86

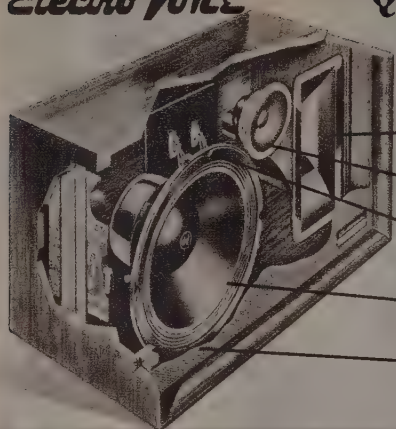
Get Your Speakers Now on Allied's Credit Fund Plan

ALLIED 183

Electro-Voice

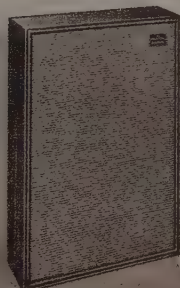
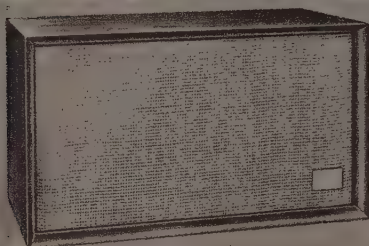
Quality-Engineered High-Fidelity

ALL-NEW ACOUSTIC SUSPENSION SEALED LOUDSPEAKER SYSTEM



The superb compact speaker systems on these pages are the culmination of extended product research and development by Electro-Voice. Instead of distortion-producing mechanical springs, high-compliance bass speakers utilize the sealed-in air of the enclosure as a restoring spring. Result is bass response worthy of far larger speaker systems.

The systems shown are designed to give you maximum value for your hi-fi dollar. Exceptionally versatile, they suit a wide variety of installations, from small apartments to the most spacious homes, and bring the utmost in high fidelity performance at minimum cost.



Modern "Thin-Line" Design—Just 5 1/2" Deep. Perfect for Virtually Every Type of Room Decor. Delivers Real Splendid Sound!

E-V FOUR 3-WAY SHELF-SPEAKER SYSTEM

Truly extraordinary sound. 12" bass driver, with double flux ceramic magnet and specially designed voice coil suspension; compression driver and diffraction horn for mid-range; compression tweeter and horn for highs. Balance controls for mid-range and highs. Response: 30-20,000 cps. Capacity: 30 watts. Impedance: 8 ohms. Size, 14x25x13 1/2". Finished on four sides—in mahogany or oiled walnut veneer—specify. Shpg. wt., 50 lbs. \$7 Monthly.

70 DU 222C 133.28
70 DU 223. Unfinished Birch. \$6 Monthly 119.56
70 DU 243. E-V FOUR-KD Kit. Prefinished oiled walnut. 94.06

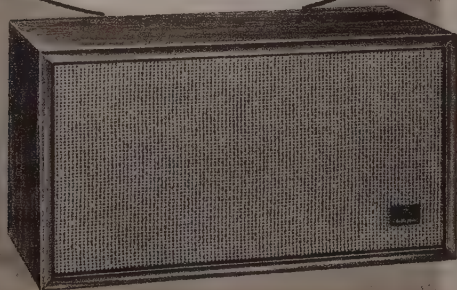
E-V ONE THIN-LINE 2-WAY SYSTEM

Treat your ears to wonderful sound . . . treat your eyes to simplicity in styling that complements any interior motif. Just 5 1/2" deep, this skillfully crafted system uses a 10" woofer with a 1 lb. 6 oz. double power ceramic magnet, plus special cloth-suspension for excellent bass; a 5" mid-range and high-frequency speaker for remarkable smooth response; 1500 cps crossover; and room acoustic response control. Response: 50-15,000 cps. Capacity: 20 watts. Impedance: 8 ohms. 24 3/8 x 16 3/8 x 5 1/2". Beautifully finished oiled walnut veneer. Shpg. wt., 25 lbs. \$5 Monthly.

94.06

E-V TWO VALUE-LEADER 2-WAY SHELF-SPEAKER SYSTEM

A Space-Saving, Wide-Range Speaker System for Placement Along a Wall, in a Corner or on a Bookshelf. It's a Perfect Blending of Tasteful Styling and Outstanding Audio Design.



An exciting new 2-way shelf-type high-fidelity speaker system in modern style and dimension. Built to please the hard-to-please ear and priced to take its place in the moderate-priced stereo music system. Only 14" high, 25" wide and 13 1/2" deep, it's perfect for mounting on a bookshelf, record shelf or in a room divider. Can also be horizontally placed along a wall, or in a corner. Latest design principle combines an advanced 12" woofer in a totally sealed enclosure, with a remarkable new compression-type high-frequency driver utilizing ring diaphragm. Delivers distortion-free, low resonance bass with rich, natural sound, and mid-range and highs of musical smooth response and superior dispersion characteristics. A step level control provides ideal tonal balance adjustment for the listening area. Frequency Response: 30-15,000 cps. Capacity: 30 watts. Crossover: 800 cps. Impedance: 8 ohms. Beautifully finished on all four sides in genuine furniture veneers. Available in choice mahogany or oiled walnut finish—specify when ordering. Attractively acoustically transparent, fine-fabric grille cloth. Shpg. wt., 49 lbs. \$6 Monthly.

70 DU 226C. Specify Finish. 105.80

E-V TWO-KD OILED WALNUT SYSTEM KIT

As above, but in kit form. Prefinished on four sides in fine oiled walnut. Shpg. wt., 49 lbs.

70 DU 227. \$5 Monthly. 79.30

Speaker Systems and Enclosure Kits *Electro-Voice*

E-V MODEL SIX 4-WAY COMPACT SYSTEM—WITH GIANT 18" WOOFER

A classic creation for those who demand the finest. This superb 4-way system, in a perfectly tuned cabinet, brings the full spectrum of sound to life, creating a new dimension in listening pleasure. A massive 18" woofer, with a 4 lb. 10 oz. ceramic magnet produces full, rich, distortion-free bass. 2 mid-range units are used: an 8" cone-type speaker, and a special compression driver and diffraction horn, providing maximum dispersion for ideal listening wherever you are seated. A compression-type VHF driver and horn give purest highs with wide-angle radiation. Also employs 4-way crossover and 5-position-type balance control. **Response:** 30-20,000 cps. **Capacity:** 35 watts. **Impedance:** 8 ohms. **Size:** 30x32x17½". Contemporary styling available in mahogany, walnut or cherry—specify. Shpg. wt., 110 lbs. **Express.** \$16 Monthly. **DU 228C. Specify Finish.**.....323.40



Coronet Series Compact Pre-Finished Loudspeaker System Kits

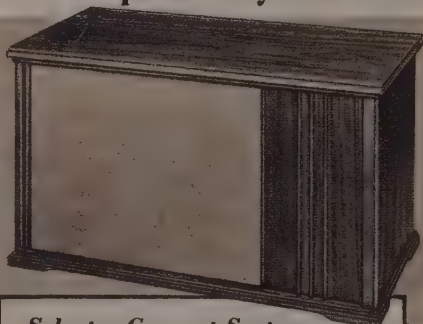
- Assembles In Less Than 20 Minutes—Without Any Tools
- Finished in Oiled Walnut; Choice of Three E-V Speakers

Presenting a splendid, masterfully designed, entirely new kind of speaker system kit—looks exactly like a fine, factory-built system, is completed. Goes together in less than 20 minutes—without tools—and requires no sanding, no finishing, and no special manual. You get a beautifully styled, compact enclosure kit, finished in oiled walnut, plus your choice of speaker from three compact-quality Electro-Voice 8" speakers. Each of the speakers, when mounted in this enclosure, gives full-bodied bass, sparkling mid-range, and highs without shrillness. Provision has been made in the enclosure for the addition of high-frequency components such as the Electro-Voice HF1 or BB1 units at your option (listed elsewhere in this section). **Size:** 12½x22¼x10½".

CORONET I. Includes cabinet above and E-V MC8 8" speaker. **Response:** 50-13,000 cps. **Capacity:** 12 watts. **Impedance:** 8 ohms. **Wt., 30 lbs.** **DU 565-2. \$5 Monthly.**.....39.00

CORONET II. Includes cabinet described above, E-V LS8 8" speaker. **Response:** 45-14,000 cps. **Capacity:** 20 watts. **Impedance:** 8 ohms. **Wt., 30 lbs.** **DU 566-2. \$5 Monthly.**.....43.50

CORONET III. Includes cabinet described above and E-V SP8B 8" speaker. **Response:** 40-15,000 cps. **Capacity:** 20 watts. **Impedance:** 16 ohms. **Wt., 35 lbs.** **DU 567-2. \$5 Monthly.**.....54.00



Select a Coronet System Using One of These 3 Speakers



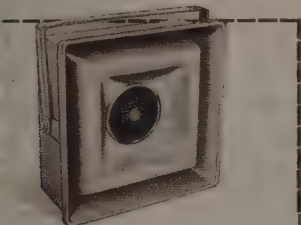
SP8B



LS8



MC8



MUSICASTER OUTDOOR SPEAKER. Enjoy music outdoors... by the pool... on patio... under the sun while you relax. Weather-proof, die-cast aluminum speaker rides clear and realistic sound. **Response:** 3,000 cps. **Dispersion:** 120°. **Capacity:** 30 watts. **Imp.** 8 ohms. **Wt., 37 lbs.** **DU 545. \$5 Monthly.**.....58.80

MUSICASTER II. Above, with VHF tweeter/cover. **Response:** 60-18,000 cps. **Wt., 39 lbs.** **DU 519. \$5 Monthly.**.....79.38

DU 585. MB-1 Bracket. Mounts Musicaster against wall. **Wt., 1 lb.**.....3.53

ENCLOSURE KITS AND COMBINATION OFFERS

ARISTOCRAT KD-6A OILED WALNUT SPEAKER ENCLOSURE KIT. Folded-horn, corner design. Uses walls of room as an extension to its built-in horn—extends bass range by 1 octave for clear reproduction of lowest notes without distortion. Accepts any 12" speaker, or components for a 2 or 3-way system. With grille cloth, instructions. 29½x19x15¼". **Less metal grille.** below. 39 lbs. **70 DU 229. \$5 Monthly.**.....44.10

23 DU 568-4. Save \$15.10. 2—KD-6A Kits and 2—LT-12 Speakers. 93 lbs. **Express.** \$7 Monthly.....135.83

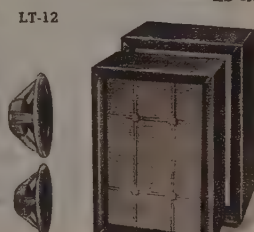
MARQUIS KD-9A OILED WALNUT SPEAKER ENCLOSURE KIT. Employs proven bass reflex, folded-horn design for deep, natural low-frequency reproduction without need for corner placement. Assembles quickly without the use of any special tools. Accepts 12" speakers or 2 or 3-way speaker systems without any modifications. Supplied with grille cloth, instructions. 29½x19x14½". **Less metal grille.** below. Shpg. wt., 41 lbs. **70 DU 230. \$5 Monthly.**.....44.10

23 DU 569-4. Save \$15.10. 2—KD-9A Kits and 2—LT-12 Speakers. 103 lbs. **Express.** \$7 Monthly.....135.83

70 DX 141. AK6 Metal Grille for Kits. 3 lbs.5.39



KD-6A



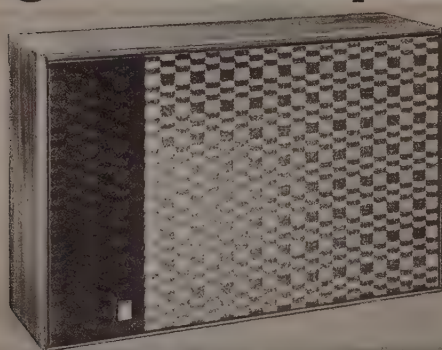
KD-9A

Get What You Want Now—Use Your Allied Credit Fund

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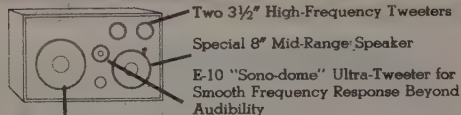
Compact, Shelf-Type Speaker System



Slender Lines
And Excellent
Performance Are
Characteristic
Of Each of These
Speaker Systems



as low as
\$79.50



Two 3½" High-Frequency Tweeters
Special 8" Mid-Range Speaker
E-10 "Sono-dome" Ultra-Tweeter for
Smooth Frequency Response Beyond
Audibility

High-Compliance, Long-Travel "Flexair" Woofer
with Heavy "Syntox-6" Ceramic Magnet

TF-4WT "SLENDER-SHELF" 4-WAY SPEAKER SYSTEM

as low as

\$97.50

\$5 monthly

- 5 Speakers Provide 4-Way High-Fidelity Sound
- Frequency Range: 25 Cps to Beyond Audibility
- Powerful 25-Watt Speaker Power Rating
- Choice of Oiled Walnut or Unfinished

New superb 5-speaker, 4-way hi-fi speaker system, combining the advantages of "Slender-Shef" format with magnificent sound reproduction. Perfectly integrated unit contains high-compliance, long-travel "Flexair" woofer with a heavy "Syntox-6" ceramic magnet, a special 8" mid-range, two tweeters and the E-10 "Sono-dome" ultra-tweeter for highs that soar beyond audibility. Gracefully designed enclosure, with genuine oiled walnut veneer and a two-tone, custom-weave grille. Response from 25 cps to beyond audio range. Cross-overs at 600, 4000 and 9000 cps. High-frequency balance control. 25 watts. Imp., 8 ohms. 16x25½x8½". 48 lbs.

70 DU 252D. \$6 Monthly..... 114.50

Model TF-4UT. Same as TF-4WT above, but in unfinished gum hardwood for custom finishing, or painting. 97.50

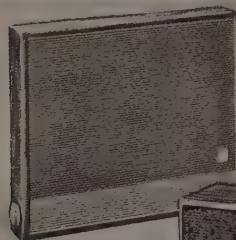
70 DU 253D. \$5 Monthly..... 97.50

Model TF-4WR. Like TF-4WT, but rattan grille. 114.50

70 DU 255D. \$6 Monthly..... 114.50

Model TF-4UR. Like TF-4UT, but rattan grille. 97.50

70 DU 256D. \$5 Monthly..... 97.50



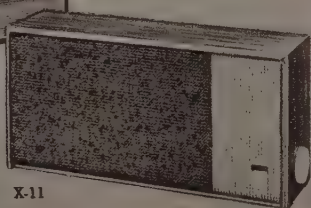
X-20

ULTRA-COMPACT SPEAKER SYSTEMS

\$399.50

\$5 monthly

Takes Minimum of
Space on Shelf,
Desk or Wall



X-11

\$297.50

\$5 monthly

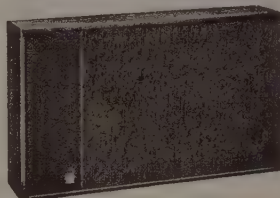
TF-3W 4-SPEAKER 3-WAY SPEAKER SYSTEM

An economical, contemporary-styled 3-way shelf system in oiled walnut. Four speakers provide full-range realistic reproduction from 25 cps to inaudibility. Consists of: 10" "Flexair" woofer, 2-3" mid-range speakers and spherical tweeter. High-frequency control on back of enclosure. Genuine oiled walnut veneer on all four sides. 13½x23¾x11¾". 25 watts. Impedance, 8 ohms. 39 lbs.

70 DU 675. \$5 Monthly..... 99.50

Model TF-3U. Same as TF-3 above, but in unfinished gum hardwood for custom finishing or painting. 79.50

70 DU 635. \$5 Monthly..... 79.50



TR-9 3-WAY SPEAKER SYSTEM

Extremely Compact
Only 5½" Deep

\$89.50

An extremely compact 3-speaker, 3-way hi-fi speaker system only 5½" deep! The TR-9 is expertly designed and crafted to offer flexibility in placement, modern styling, and superb response from 25 cps to beyond audibility—with cross-overs at 600 and 4000 cps. Features 10" "Flexair" woofer with heavy "Syntox-6" ceramic magnet; 8" mid-range speaker; and the E-10 "Sono-dome" super tweeter. Also has high-frequency control on back of enclosure. Finished hand-rubbed oiled walnut with two-tone, custom-weave grille. Naturally fits in with any decor. 13½x23¾x5½". 25 watts power rating. Impedance, 8 ohms. Shpg. wt., 28 lbs.

70 DU 136..... 89.50

SPACE-SAVING SPEAKER SYSTEMS

X-20 3-SPEAKER, 2-WAY SPEAKER SYSTEM

A slim 2-way speaker system, only 2½" deep! Has built-in bracket for wall mounting, if preferred. Its trim styling enhances the interior decoration of any room, and its 2-way system provides smooth, wide-range sound—rich bass with clean, crisp highs. Uses a specially designed shallow woofer and two tweeters. Capacity: 6 watts. Volume control on side of enclosure. Finished in oiled walnut with two-tone harmonizing custom fabric. Compact size, 12½x15¾x2½". Impedance, 4-16 ohms. Shpg. wt., 14½ lbs.

70 DX 137. \$5 Monthly..... 39.50

X-11 2-SPEAKER, 2-WAY SPEAKER SYSTEM

Terrific sound quality flows from this new, ultra-compact system that connects to any high-fidelity music system. Perfect for use in small rooms or apartments, anywhere space is at a premium. Features a special woofer with powerful "Syntox-6" magnet, precisely matched to its miniature enclosure; and pure-sounding tweeter that extends response to 14,000 cps. Finished in oiled walnut. Volume control on side. Capacity, 6 watts. Impedance, 4-16 ohms. Size, 6½x13½x4". Shpg. wt., 9½ lbs.

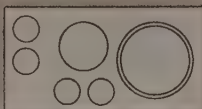
70 DX 254D. \$5 Monthly..... 29.50

Popular Series 3-P Speaker Systems by Jensen

3-P/K SPEAKER COMPONENT KIT

Ultimate in high-fidelity is yours with this integrated group of speakers. Use it with any Jensen enclosure specifically crafted to complement the acoustical design, or in your own custom-made enclosure. Kit consists of all components used in all speaker systems on this page. 3-P/W1 10" woofer (only 2 1/8" deep) with plane magnetic radiator for response down to 20 cps, powerful magnet and cast frame; M-80 8" mid-range speaker giving 600-4000 cps response; 2-TW-40 3 1/2" tweeters reaching to 10,000 cps; E-10 "a-Tweeter" with dome radiator, carrying high-frequency response beyond audibility; M-1473 crossover with balance control. Speaker leads. 25 watts power-handling capacity. Impedance, 8 ohms. Easy, instant, snap-on leads—no soldering. Includes vent and instructions. Shpg. wt., 23 lbs.

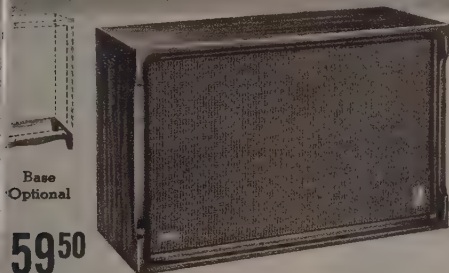
J 794. \$5 Monthly..... 97.50
 065. 3-P/W1 Woofer Only. 25 w. 16 ohms. 12 1/2 lbs..... 39.75
 066. TW-22 Tweeter Only. 25 w. 16 ohms. 1 3/4 lbs. 9.75



The heart of each superb speaker system on this page is the exciting 3-P/K Component Kit. This masterpiece of acoustical design and craftsmanship integrates 5 special speakers into an ensemble producing truly magnificent high-fidelity sound.



\$97.50
 \$5 monthly



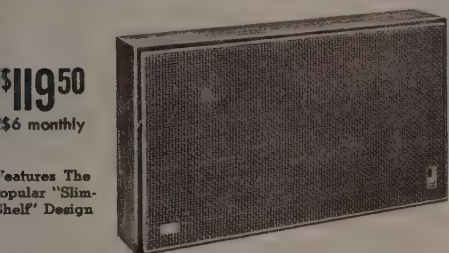
Base
 Optional

\$59.50
 \$3 monthly

MODEL 3-P/3 SPEAKER SYSTEM

Particularly fine shelf system in the famous 3-P series. The splendid characteristics of the 3-P/3 are sure to please the highly critical listener. Uses all components of the 3-P/K Speaker Component Kit, in an attractively styled, compact shelf enclosure. Produces thrilling high-fidelity response from 20 cps to beyond audibility. Masterfully crafted enclosure is in beautiful hand-rubbed walnut finish—a perfect decorator unit. Rear-mounted high-frequency control. Size, 16 1/4 x 25 1/2 x 11 3/8". Power handling capacity, 25 watts. Impedance, 8 ohms. Shpg. wt., 52 lbs.

J 791. \$8 Monthly..... 159.50
 073 CONSOLE/LETT BASE. Matching walnut base for 3-P/3 system above. 16 3/4 x 10 1/2 x 3 3/8". Shpg. wt., 4 lbs.
 J 793..... 9.95



\$119.50
 \$6 monthly

Features The
 Popular "Slim-
 Shelf" Design

MODEL 3-P/1 SPEAKER SYSTEM

Graceful shelf-type system that's modestly priced, but combines eye and ear appeal. "Slim-shelf" design really simplifies placement—use on a shelf, on the floor or hang on a wall. Occupies astonishingly little space—only 5 1/2" deep! Includes all components of the 3-P/K Speaker Component Kit installed in an acoustically correct enclosure for full-range sound from 25 cps to inaudibility. Rear-mounted high frequency balance control. Finished in hand-rubbed oak walnut with modern rattan grille and oak trim strips. 25 watts. Imp., 8 ohms. 13 3/8 x 25 x 5 1/2". 36 lbs.

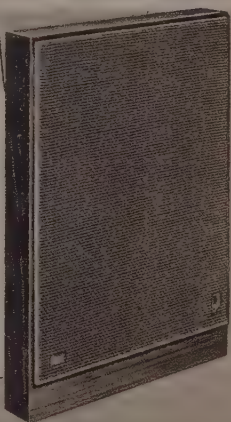
DU 790. \$6 Monthly..... 119.50

Get More For Your Money From Allied

DELIVERS BETTER HI-FI SOUND

- 5 Integrated Speakers
- Flat Plane Woofer with Die-Cast Frame for Rich, Powerful Bass
- Response from 25 cps To Beyond Audibility
- Efficient Ceramic Magnets

\$139.50
 \$7 monthly



MODEL 3-P/2 SPEAKER SYSTEM

- Space-Saving "Super-Slim" Design—Only 3 3/8" Deep
- Uses All Components of the 3-P/K, Shown Above
- Electrical Crossovers at 600, 4000 and 10,000 Cps
- Oiled Walnut Cabinet Has Rattan Grille and Oak Trim

An extraordinary high-fidelity speaker system with expert acoustical design and 5-speaker arrangement that delivers full-dimensional sound to thrill every listener. Exceptionally thin depth of only 3 3/8" solves many placement problems. Can be hung neatly on the wall, or used as an attractive floor speaker. Convenient, rear-mounted high-frequency balance control allows you to adjust highs to conform to room acoustics and to satisfy your personal listening taste. Skillfully crafted, selected walnut veneer cabinet has hand-rubbed oiled finish with attractive rattan grille and oak trim strips. Power-handling capacity, 25 watts. Impedance, 8 ohms. 28 5/8 x 21 3/4 x 3 3/8". Shpg. wt., 44 lbs.

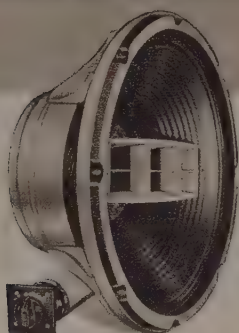
70 DU 789. \$7 Monthly..... 139.50

Write to Allied for System Savings



Planning a customized hi-fi system? You'll be amazed at how much you can save on a music system made up of components of your choice—including Jensen speaker systems. Select the components that you want, list them and write to: Hi-Fi Manager, Allied Radio, 100 N. Western Avenue, Chicago 80, Illinois. You'll get your price quotation promptly by return mail.

Jensen New "Sigma" Series Speakers—Latest



- FLEXAIR High-Compliance Woofer Cones
- Electrical and Mechanical Crossovers
- Binding-Post Terminals for Easy Hook-up
- High-Energy SYNTAX-6 Ceramic Magnets
- Low-Distortion Compression Tweeters
- High-Frequency Level Controls

DELUXE 12" COAXIAL

- Frequency Response, 30-15,000 cps
- Wide-Dispersion 6-Cell Horn
- 1 3/4-Pound Ceramic Magnet

\$59.50 \$5 monthly

NEW SG-222 12" COAXIAL SPEAKER

New version of Jensen's famous H-222 speaker, now with more rigid, acoustically correct die-cast frame. An outstanding 2-way speaker offering magnificent fidelity throughout an extremely wide frequency range. Compression-driver tweeter is loaded by a 6-cell horn—assures very high efficiency, tonal purity and wide-angle dispersion. High-frequency level control lets you adjust the highs to suit your personal taste and the acoustics of your room. 12" woofer delivers impressive bass performance. 1 3/4 lb. high-energy Syntax-6 ceramic magnet reproduces the dynamic range of the most powerful percussive passages with extraordinary clarity and brilliant realism. Crossover network evenly distributes frequencies below and above 2000 cps. Overall Frequency Response: 30-15,000 cps. Power Handling Capacity: 25 watts. Impedance: 8 ohms. Speaker requires only 7 1/2" mounting depth. Shpg. wt., 15 lbs.

71 DX 238. \$5 Monthly..... **59.50**



SG-80 DUAL-CONE 8" SPEAKER

Excellent choice for a multitude of low to high-performance applications. Flexair woofer with high-energy Syntax-6 magnet gives surprisingly powerful bass. Concentrically-mounted auxiliary cone provides high clarity of startling clarity. Response: 40-12,000 cps. Capacity: 12 watts. Impedance: 8 ohms. Or 3 3/4" deep. Wt., 7 3/4 lbs.

71 D 240..... **16.50**



SG-84 3-ELEMENT 8" COAXIAL

Moderately-priced speaker—perfect for smooth, natural sound. Flexair woofer combined with auxiliary radiator and electrically-independent direct-radiator tweeter provides wide-range response. Tweeter level control; heavy-duty Syntax-6 magnet. Crossover at 2000 cps. Response: 40-14,000 cps. Capacity: 12 watts. Impedance: 8 ohms. 3 3/4" deep. Shpg. wt., 8 1/4 lbs.

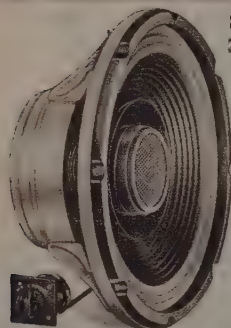
71 D 243. \$5 Monthly..... **24.50**



SG-88 8" COAXIAL SPEAKER WITH HORN TWEETER

An exclusive Jensen design—provides, for the first time, a low-crossover compression-driver horn-loaded tweeter in an 8" unit. Electrical crossover from the high-compliance Flexair woofer at 2000 cps for smooth, extremely wide response. With tweeter level control; efficient 1-pound Syntax-6 magnet. Response: 35-15,000 cps. Capacity: 20 watts. Imp.: 8 ohms. Depth, 5 3/4". 8 1/2 lbs.

71 D 244. \$5 Monthly..... **36.50**

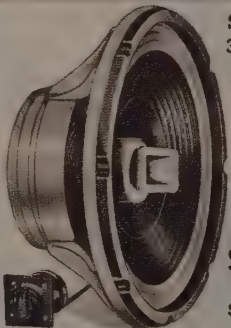


SG-210 12" 3-ELEMENT COAXIAL SPEAKER

\$37.50
\$5 monthly

Advanced design 2-way, 3-element 12" speaker of outstanding value. Exclusive Flexair woofer provides high-compliance and low resonance for excellent, amazingly clean bass response. Mechanically-coupled mid-range radiator and separate curvilinear-radiator tweeter produce crisp, brilliant highs. Includes high-frequency level control with cord for external mounting—adjusts for personal taste or to suit individual room acoustics. Big 1-pound Syntax-6 ceramic magnet. Electrical crossover at 2000 cps. Frequency Response: 20-14,000 cps. Power Handling Capacity: 20 watts. Impedance: 8 ohms. Mounting depth required, 5 3/4". Shpg. wt., 14 lbs.

71 DX 245. \$5 Monthly..... **37.50**

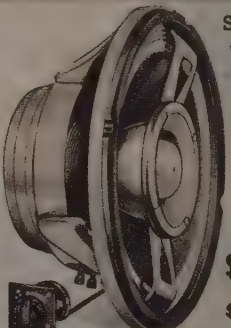


SG-220 12" 3-ELEMENT COAXIAL SPEAKER

\$49.50
\$5 monthly

Outstanding speaker with lots of quality features—response is excellent with any fine music system. Jensen's exclusive Flexair high-compliance, low resonance woofer has powerful 1-pound Syntax-6 magnet to produce authentic, boom-free bass. Boasts mid-range radiator that's mechanically coupled with compression-driver horn loaded super-tweeter for superior, wide-range coverage. Electrical crossover at 4000 cps. High-frequency tweeter balance control enables adjustment to suit any room and your personal preference. Frequency Response: 20-15,000 cps. Power Handling Capacity: 20 watts. Impedance: 8 ohms. Depth required, 5 5/8". 14 1/4 lbs.

71 DX 275. \$5 Monthly..... **49.50**



SG-223 12" COAXIAL REFLEX HORN SPEAKER

\$69.50
\$5 monthly

Another Jensen exclusive—packed with special engineering features you want in your hi-fi music system. Includes a high-compliance, low resonance Flexair woofer with full one-inch cone excursion, plus horn-loaded, low-crossover tweeter. This design assures clean, boom-free bass, a crisp, ultra-brilliant highs. Electrical crossover at 2000 cps—provides low distortion and precisely balanced response. High-frequency tweeter level control adjusts to the precise acoustical balance desired. With big, high-energy 1 3/4-pound Syntax-6 ceramic magnet. Response: 20-15,000 cps. Capacity: 30 watts. Impedance: 8 ohms. 6 3/4" speaker depth. 17 lbs.

71 DX 249. \$5 Monthly..... **69.50**

Features for Outstanding Performance Jensen

FAMOUS JENSEN SPEAKER COMPONENTS



2A SUPER TWEETER. Compression-driver, horn-loaded type ure highs from 4000 cps to beyond audio spectrum. Capacity suitable crossover; 40 watts. Imp.: 16 ohms. O.D., $2\frac{3}{4} \times 3\frac{3}{4}$ " With mtg. plate. $2\frac{1}{2}$ lbs. 098. \$5 Monthly.....

35.00

3B COMPRESSION TWEETER. For use with 2000 or 4000-cps covers. Extends highs to 15,000 cps. Capacity: 30 watts; Imp.: 16 ohms. Cutout 2×6 ". $3 \times 7\frac{1}{4} \times 6\frac{5}{16}$ ". Wt., 3 lbs. 099. \$5 Monthly.....

16.50

SONO-DOME ULTRA-TWEETER. Add this plastic dome radiator speaker and enjoy highs of breathtaking beauty, from 4000 to limits of audio spectrum. Built-in crossover, mounts from back file in $3\frac{1}{2}$ " cutout. O.D. $4\frac{1}{4} \times 2$ " deep. Capacity: 30 watts; Imp.: 16 ohms. $1\frac{1}{2}$ lbs. 100. \$5 Monthly.....

19.50

P35-VAH TWEETER. Direct-radiator type reproduces clean ure from 2000 to 14,000 cps. Cutout $3\frac{1}{8}$ " dia. $3\frac{1}{2} \times 2\frac{1}{8}$ " deep. Capacity: 15 watts; Imp.: 16 ohms. $\frac{3}{4}$ lb. 252.....

4.00

8" MID-RANGE SPEAKER. Low cost, direct-radiator type. Fully reproduces 600-4000 cps. Closed housing for isolation. deep. Cap.: 30 watts; Imp.: 16 ohms. 3 lbs. 102.....

7.50

P8-RM 8" MID-RANGE SPEAKER. Direct-radiator type. Uniform output of 200 to 4000 cps. Closed housing. Capacity: 40 watts; Impedance: 16 ohms. 5" deep. Shpg. wt., 4 lbs. 71 D 103.....

12.50

"FLEXAIR" WOOFERS FOR DEEP, EXCITING BASS

"Flexair" design, with special outer suspension, has created a shallow woofer with extraordinarily deep, natural bass response (as low as 16 cps!), low distortion and great mechanical stability.

71 D 106. **P8-QF 8" Woofer.** $\frac{3}{4}$ -lb. magnet. Response: 36-2000 cps; Capacity: 25 watts; Imp.: 16 ohms. Wt., $5\frac{1}{2}$ lbs.....

22.50

71 DX 104. **C12-NF 12" Woofer.** $1\frac{3}{4}$ lb. magnet. Response: 20-2000 cps; Capacity: 30 watts; Imp.: 16 ohms. Wt., 13 lbs.....

37.50

71 DX 105. **P15-LF 15" Woofer.** $3\frac{1}{2}$ lb. magnet. Response: 16-2000 cps; Capacity: 40 watts; Imp.: 16 ohms. Wt., 21 lbs.....

69.75

KT-33 SPEAKER COMPONENTS KIT

Complete—ready for easy installation. Consists of: C12-NF 12" "Flexair" woofer; P8-UM direct-radiator 8" mid-range speaker; RP-103B compression-driver, horn-loaded tweeter; A-645 two-channel crossover; ST-946 balance control. Response: 20-15,000 cps; Cap.: 30 watts; Imp.: 16 ohms. 24 lbs. 71 DU 107. \$5 Monthly.....

80.00

CROSSOVER NETWORKS

001. (Not illus.) Two-channel 600-cycle crossover. Cap.: 40 watts; Imp.: 16 ohms. $5\frac{1}{4} \times 4\frac{3}{4}$ ". Wt., $5\frac{1}{2}$ lbs. 108. \$5 Monthly.....

19.75

004. As above, but 2000-cps crossover. constant-resistance type. 40-watt cap. 4 ohms. $4\frac{3}{8} \times 3\frac{1}{2} \times 3\frac{1}{4}$ ". Wt., $2\frac{1}{2}$ lbs. 109.....

13.00

002. As above, but crossover to highest channel at 4000 cps. 40-watt capacity. 16 ohms. $4\frac{3}{8} \times 3\frac{1}{2} \times 3\frac{1}{4}$ ". Wt., 3 lbs. 110.....

10.90

005. A-640. Deluxe network for 3-way systems of up to 40 watts capacity. Crossovers 1000 and 4000 cps. 16 ohms. 10 lbs. 260. \$5 Monthly.....

32.00

BALANCE CONTROLS

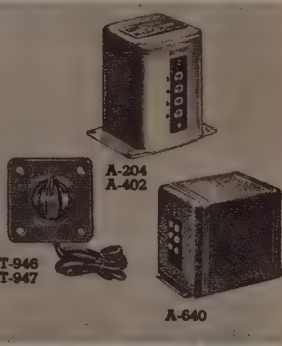
For 2-way systems or 2, 3, and 4-way systems. Have adjustable wire-wound L-pads—adjust to room acoustics or for personal preference. Mount in $1\frac{1}{16}$ " cutout. With 36" cable leads.

ST-946. High-frequency balance control. For tweeter control in 2-way systems to 30-watt capacity. $2\frac{1}{2}$ " square escutcheon plate. 16-ohm impedance. Shpg. wt., $\frac{1}{2}$ lb. 71 D 112.....

3.95

ST-947. Mid-range and high-frequency balance control. 2-deck, wirewound L-pad. For tweeter or mid-range unit level adjustment in 2, 3, and 4-way systems to 40-watt capacity. $2\frac{1}{2}$ " square escutcheon plate; bakelite knob. 16-ohm imp. Wt., $\frac{1}{2}$ lb. 71 D 111.....

4.50



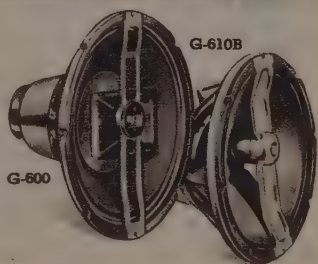
FAMOUS 15" TRIAXIAL SPEAKERS—JENSEN'S FINEST!

000. An economy version of the G-610B right. Produces extremely clear sound—frequency response is 30 cps to beyond audio range. Woofer employs a giant $3\frac{1}{2}$ -lb. magnet. Bore-mounted compression driver covers mid-range and has separate horn for 4000 cps. Super-tweeter reproduces frequencies above 4000 cps. Complete with crossover network and balance control. Capacity: 35 watts; Impedance: 16 ohms. $11\frac{1}{16}$ " deep. 39 lbs. 095. \$7 Monthly.....

134.50

G-610B. Jensen's very best speaker. Offers stunningly authentic bass; smooth mid-range; highs of exceptional tonal purity. Covers frequencies from 25 cps to above the audio range. Has heavy-duty woofer with massive $6\frac{1}{2}$ -lb. Alnico V magnet; compression-driver horn-loaded mid-range and tweeter elements. Dual crossover network and balance controls. Crossovers at 600 and 4000 cps. Capacity: 40 watts. Imp.: 16 ohms. $10\frac{3}{4}$ " deep. Shpg. wt., 53 lbs. 71 DU 093. \$12 Monthly.....

252.75



Money Down with Allied's Credit Fund Plan



Flawlessly Crafted with Fine Woods and Veneers

Special 15" Woofer



8" Mid-Range Speaker



Sphericon Super Tweeter



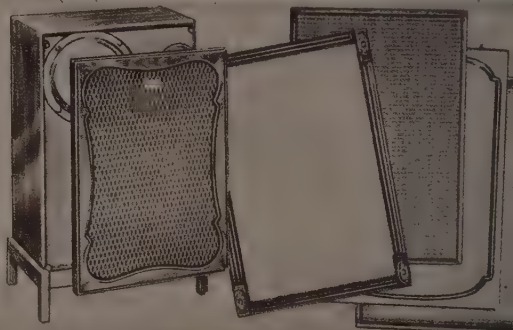
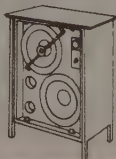
MARK II 3-WAY SPEAKER SYSTEM Beauty in Sound and Style

In looks and in performance, a marvel of furniture art and acoustical design. The Mark II unfolds the entire audio spectrum, creating a new dimension of listening pleasure. Consists of: heavy-duty 15" woofer with specially designed voice coil, delivering powerful bass (has Uniferrox-7 magnets and massive die-cast frame); 8" mid-range speaker with reserve cone-excursion and power capacity, that produces middle frequencies with striking clarity and crispness. Sphericon super-tweeter offering outstanding response at dispersion. Has presence and brilliance controls. Responses: 20-40,000 cps. Crossovers at 150 and 5000 cps. Cabinet styled in classic lines of simplicity; genuine hand-rubbed oiled-walnut veneer. Capacity, 60 watts. Impedance, 4 ohms. 28 1/4 x 35 x 17 1/2" (including legs). Shpg. wt., 101 lbs. Shipped Express.

70 DZ 101. \$15 Monthly.....289.1



Newly Designed



NEW CLASSIC DUAL-12 3-WAY SPEAKER SYSTEM

Like the Mark II above, the Dual-12 is a University "Classic," offering beauty of sound to delight even the most experienced audiophile. Features a newly-designed speaker arrangement and compact cabinetry. Consists of a 12" high-compliance, large-excursion woofer that delivers deeply resounding bass; a 12" woofer/mid-range speaker that reinforces the other woofer and delivers an excellent middle range; the famed Sphericon super-tweeter (also used in the Mark II) for crystal-clear "highs" without a trace of harshness. Also has brilliance and presence controls for perfect blending to room acoustics. Frequency response, 25 to 40,000 cps. Cabinet is elegantly finished in rich oiled-walnut veneer—hand-rubbed. Capacity, 50 watts. Impedance, 4-8 ohms. 23 3/4 x 31 1/4 x 15 1/2" deep (including legs). Shpg. wt., 68 lbs. Shipped Express.

70 DZ 235. \$12 Monthly.....224.91

MEDALLION XII 3-WAY SPEAKER SYSTEM

Versatile shelf speaker system (optional base for floor use). Supplies less grille. Optional grilles (below) permit you to choose style grille you prefer—also permit changes for variety or decor. 1" woofer, 8" mid-range speaker and Sphericon tweeter. 28-40,000 cps. 24 x 17 x 11 1/4". 40 watts. 8-16 ohms. Mahogany, oiled walnut or fruitwood—specify. 43 lbs. Grille, 3 3/4 lbs.

70 DU 650C. \$7 Monthly.....137.1

70 DU 653. Early American Grille. Fruitwood only.....14.0

70 DU 652. French Provincial Grille. Fruitwood only.....14.0

70 DU 651C. Contemporary Grille. Specify finish.....9.0

70 DU 592C. Swedish Modern Grille. Specify finish.....14.0

70 DU 654C. Optional Base. 4 1/4". 3 lbs. Specify finish.....14.0



Enjoy Your Hi-Fi System Outdoors



Music Outdoors at Low Cost



NEW MODEL CLC OUTDOOR HI-FI SPEAKER

High-fidelity speaker designed for outdoor use. Response, is 55 to 14,000 cps! Just the speaker for use around the home on patio, lawn, terrace, etc. Has special, heavy-duty direct-radiating cone speaker with a coaxially-mounted tweeter—highs are crystal clear. Rugged aluminum housing. The CLC is fully weatherproofed. Capacity, 30 watts. Impedance, 8 ohms. Horizontal dispersion 120°. Bell diameter, 22 3/4". Depth, 12 1/4". Mounts on wall, beam, pole or ceiling with "U" mounting bracket (included) that permits 180° adjustment. Shpg. wt., 22 lbs.

70 DX 236. \$5 Monthly.....68.55

MODEL MLC MUSIC/AIRE OUTDOOR SPEAKER

Compact, coaxial speaker offering beautiful hi-fi performance in outdoor applications. Reproduces both music and voice with excellent clarity. Reproduction is impressively clear from 150 to 15,000 cps! Has a built-in 2000-cps electrical crossover network for smooth overall response. Horizontal sound dispersion is full 120° for coverage of wide areas. Weatherproofed design. Power capacity, 15 watts. Impedance, 8 ohms. Measures only 12 3/4 x 9 1/2 x 10 1/2". Supplied with universal "U" mounting bracket for extra-easy installation. Shpg. wt., 13 lbs.

57 DX 560. \$5 Monthly.....33.8

Hi-Fi Music and Attractive Styling

UNIVERSITY 

DEL S80 COMPACT 2-WAY SHELF-SIZE SPEAKER SYSTEM

compact and beautifully styled, the S-80 produces natural sound that offers an exceptionally wide range of rich, high-fidelity music. Contains: C-8 8" woofer; direct-radiator tweeter; LC crossover network with frequency distribution; at 2500 cps. Phase-inverter design provides full bass. Frequency response, 5,000 cps. 11 1/2 x 21 3/4 x 9" deep. Handsome walnut finish. Capacity 25 watts. Impedance 8-16 ohms. Shpg. wt., 20 lbs.

U 238. \$5 Monthly.....58.75
U 239. As above, but in ready-to-finish, sanded birch.....58.81

FIOR II COMPACT 3-WAY SHELF-SIZE SPEAKER SYSTEM

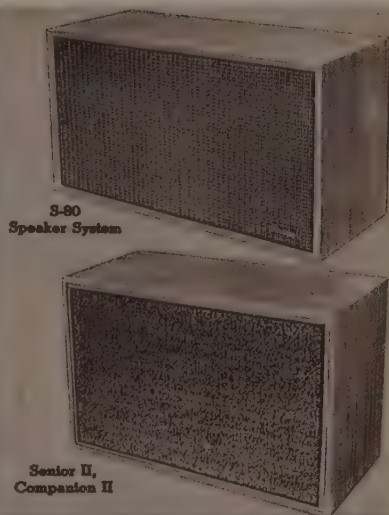
balanced sound throughout a frequency range of 30 to 22,000 cps! Neatly complemented by a genuine hand-rubbed, oiled-walnut veneer and matching grille cloth. Looks equally attractive on shelf or floor—mounts vertically or horizontally. Features 12" woofer, 3 1/2" mid-range speaker; Sphericon super tweeter; brilliance control to match room acoustics. Size, 15 1/2 x 25 x 12 1/8" deep. Enclosure is finished on all four sides. Capacity, 40 watts. Impedance, 8 to 16 ohms. Shpg. wt., 47 lbs.

U 111. \$5 Monthly.....97.51
U 115. As above, but in ready-to-finish, sanded birch.....87.71

COMPANION II 3-WAY SHELF-SIZE SPEAKER SYSTEM

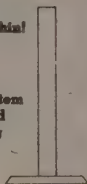
compact system offering prestige appearance and excellent sound. Has molded edging with tastefully matching grille cloth. Consists of: 10" woofer for full bass; 3 1/2" speaker for impressively smooth mid-range; 3 1/2" tweeter for high notes; brilliance control to adjust tweeter to room acoustics. Frequency response, 35 to 18,000 cps. 13 1/2 x 24 x 11 1/2" deep. Genuine oiled-walnut veneer on four sides. 30 watts. 8-16 ohms. Shpg. wt., 33 lbs.

U 109. \$5 Monthly.....77.91
U 110. As above, but in ready-to-finish, sanded birch.....68.11



NEW
Only 1 1/4" Thin!

Ultra-Thin
Speaker System
Offers Sound
to Match Big
Systems



NEW
Ultra-Compact
Mini-Flex
Speaker System
Offering Full-
Range Hi-Fi
Sound



MINIATURE TRI-PLANAR 3-WAY SYSTEM

Amazingly believing, and when you listen to the full-dimensional sound of this 1 1/4" thin system delivers, you'll agree that it compares favorably with big-speaker systems. The Tri-Planar is a full 3-Way system. As for appearance and size, the Tri-Planar answers with ease to the question of placement in large or small rooms. Stands horizontally or vertically. Frequency range: 45 to 17,000 cps. Has two woofer line radiators with custom-matched voice coils and an extended-range, direct-radiator 2 3/4" tweeter. Beautifully finished in genuine, hand-rubbed oiled-walnut veneer. Modern styled cane grille. Power-handling capacity, 20 watts. Impedance, 4 ohms. Only 15 x 23 x 1 1/4". Shpg. wt., 12 lbs.

DX 250. \$5 Monthly.....78.35

MINI-FLEX 3-WAY SPEAKER SYSTEM

A truly ultra-small speaker system that eliminates placement problems in any size room, yet delivers beautiful, full-bodied sound from 40 to 20,000 cps. The slim-lined enclosure adds a touch of contemporary charm to your room without intruding on the general decorative scheme. Sound is amazing because modern engineering has devised a woofer with mass-loaded voice coil, and extremely low free-air resonant frequency, to overcome the previous limitations of miniaturization. Includes 6 1/2" woofer; 3" mid-range speaker; 3 1/2" tweeter; balance controls. Hand-rubbed oiled-walnut veneer with matching grille cloth. Capacity, 20 watts. Impedance, 8-ohms. 9 7/16 x 15 x 3 1/8" deep. Shpg. wt., 15 lbs.

70 DX 251. \$5 Monthly.....68.55

T-203 SPHERICON SUPER TWEETER—BUILT-IN CROSSOVER

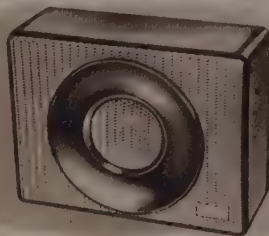
Add this extraordinary tweeter to your speaker system and enjoy "highs" of almost unbelievable clarity and beauty. Response, 3000 to 40,000 cps (± 2 db to 22,000 cps). The T-203 radiator tweeter has a special domed phenolic diaphragm and spherical diffractor to ensure a virtually linear response. Matches perfectly to any speaker system without sacrificing any bass efficiency. Also has built-in crossover network and brilliance control. Tweeter's dispersion is 120° in any direc-

tion. In decorative walnut-finished case for use externally to your speaker system. Power-handling capacity, 30 watts. Impedance, 8 ohms (can be used with any 4-16 ohm speaker). Compact size, 6 3/4 x 5 1/4 x 2 3/4" deep. Shpg. wt., 3 lbs.

71 D 060. \$5 Monthly.....24.45

MODEL T-202 TWEETER. As above, but less case. For custom installation. 4 1/2" dia. 4" deep. Wt., 2 1/2 lbs.

71 D 061. \$5 Monthly.....24.45





DIFFUSICONE 8 2-WAY 8" SPEAKER. Wide-angle high-frequency dispersion is achieved by Diffusicone element. Frequency response, 30-15,000 cps. Power handling capacity, 35 watts. Imp., 8 or 16 ohms. $4\frac{1}{2}$ " deep. Shpg. wt., 5 lbs.
71 D 010. \$5 Monthly. 27.44

UC-82 2-WAY 8" SPEAKER. Expressly designed for compact enclosures. 5000 cps crossover. 45-14,000 cps. 25 watts. 8 or 16 ohms. $4\frac{1}{4}$ " deep. Shpg. wt., $3\frac{1}{2}$ lbs.
71 D 012. 16.61

308 3-WAY 8" SPEAKER. An outstanding performer. Has multi-element diffusicone mid-range unit, compression-type tweeter, and built-in 5000-cps crossover. Extra-large voice coil for powerful bass. Frequency response, 30-17,000 cps. Power handling capacity, 35 watts. Imp. 8 or 16 ohms. $6\frac{1}{8}$ " deep. Shpg. wt., 6 lbs.
71 D 011. \$5 Monthly. 41.16

N-1 HIGH-PASS FILTER. (Not illus.) Adjustable. 2500, 5000, 10,000 cps at 8 ohms; 1250, 2500, 5000 at 16 ohms; 5000, 10,000 at 4 ohms. $3\frac{5}{8}$ "x $3\frac{1}{2}$ "x3". 2 lbs.
71 D 053. 13.72

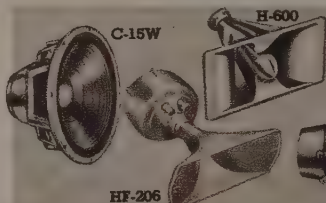
N-2A Crossover Network. (Not illus.) 350 or 700 cps at 8 or 16 ohms; 700 at 4 ohms. $3\frac{5}{8}$ "x $3\frac{1}{2}$ "x3". $2\frac{1}{2}$ lbs.
71 D 054. 17.64

AP-8 LEVEL CONTROL. (Not illus.) Fits panels to $\frac{3}{4}$ " thick. 7 oz.
71 D 055. 3.87

312 3-WAY 12" DIFFAXIAL. Reproduces exquisite music through extremely wide range of 28-40,000 cps. Has 12" high-compliance woofer, multi-element diffusicone, and super-tweeter with 120° horizontal dispersion. Reflector baffle prevents acoustic interaction between tweeter and woofer. L-C crossover network. Includes brilliance control. One-piece die-cast basket. Capacity, 35 watts. Impedance, 8 or 16 ohms. Depth, $6\frac{1}{8}$ ". 13 lbs.
71 DU 006. \$5 Monthly. 71.54

DIFFUSICONE 12. Wide-range 12" diffusial speaker produces deep bass without boominess. Dual horn-loading at apex of cone ensures impressive mid-range and highs. Mechanical crossover at 1000 cps. 25-15,000 cps. Capacity, 35 watts. 8 or 16 ohms. $6\frac{1}{8}$ " deep. 12 lbs.
71 DU 007. \$5 Monthly. 38.95

6201 12" COAXIAL. Renowned for its natural bass, full mid-range and clear, bright highs. Features separate drivers for woofer and compression-type tweeter. Has built-in 2500-cps crossover and brilliance control on a 3-ft. cable. Frequency response, 28-18,500 cps. Capacity, 35 watts. Impedance, 8 or 16 ohms. $6\frac{1}{8}$ " deep. 13 lbs.
71 DU 009. \$5 Monthly. 56.95



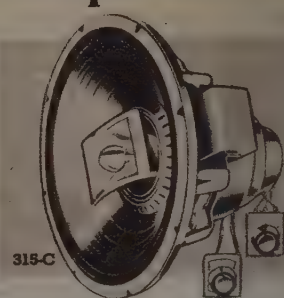
C-15HC 15" WOOFER. High-compliance, low-resonance woofer featuring Hiflux Uniflex-7 magnet material, in specially designed twin-spider suspension assembly. For use with amplifier delivering 10 or more watts. Frequency response, 15 to 800 cps. Capacity, 60 watts. Impedance, 4-20 ohms. $8\frac{1}{8}$ " deep. Wt., 28 lbs.
71 DU 026. \$5 Monthly. 87.71

C-15W 15" WOOFER. Features dual voice coil—2 electrically independent voice coils on single woofer. Dual-spider piston and 6-lb. magnet. Response: below 25 cps to 1500 cps. Capacity, 50 watts. Impedance, 4-20 ohms. $10\frac{1}{2}$ " deep. Shpg. wt., 30 lbs.
71 DU 025. \$5 Monthly. 83.30

C-12HC 12" WOOFER. For use with amplifiers delivering 15 or more watts. Frequency response, 20 to 3000 cps. Power handling capacity, 50 watts. Impedance, 4-20 ohms. $6\frac{1}{8}$ " deep. With plans for required matching enclosure. Shpg. wt., 12 lbs.
71 DX 027. \$5 Monthly. 48.51

C-12SW 12" WOOFER. (Not illus.) Adjustable response to 700, 2500 or 5000 cps. 30-6000 cps, overall. 30-watt capacity. 8 ohms. $6\frac{1}{8}$ " deep. Wt., 10 lbs.
71 DX 028. \$5 Monthly. 38.71

C-8W 8" WOOFER. Low or mid-range speaker. Frequency response, 50-5000 cps. Power handling capacity, 25 watts. Impedance, 8 ohms. $4\frac{1}{4}$ " deep. 3 lbs.
71 D 029. 14.70



DELUXE 315-C 3-WAY 15" SPEAKER. University's finest speaker! Theatre-type woofer features high-excursion, dual-spider piston and anti-breakup low-resonance diaphragm for powerful authentic bass. Multi-element diffusicone mid-range section crosses over at 1000 cps. Uses T-50 Hypersonic driver and axially mounted wide-angle tweeter horn. Response, 25 cps to beyond the audible range. Has balance controls for mid-range and treble. Magnet wt., $6\frac{1}{2}$ lbs. Capacity, 50 watts. Impedance, 8 or 16 ohms. 12" deep. Shpg. wt., 38 lbs.
71 DU 008. \$8 Monthly. 152.80

C-8M MID-RANGE 8" SPEAKER. Response 500-5000 cps. Fine for 3-way systems. Capacity, 50 watts. Impedance, 8 ohms. $4\frac{1}{4}$ " deep. Shpg. wt., $3\frac{1}{2}$ lbs.
71 D 048. 16.61

T-30 MID-RANGE AND HIGH-FREQUENCY DRIVER. For Cobrelex or H-600 horn. 350-15,000 cps. Capacity, 50 watts. Impedance, 8 ohms. $1\frac{3}{8}$ "x18 throat. $3\frac{1}{2}$ "x $3\frac{1}{4}$ " Shpg. wt., $2\frac{3}{4}$ lbs.
71 D 049. \$5 Monthly. 29.44

H-600 MID-RANGE HIGH-FREQUENCY HORN. For use with T-30. 600-cycle cutoff. Uniform dispersion. Size, $7\frac{3}{4}$ "x $8\frac{1}{2}$ "x $4\frac{1}{4}$ " Shpg. wt., 2 lbs.
71 D 050. 18.61

COBRELEX TWIN-FLARE HORN (Not illus.) Mid-range for 3-way systems. Use with T-30. As low as 350 cps. $1\frac{3}{8}$ "x18 throat. $10\frac{1}{4}$ "x $18\frac{1}{2}$ "x $9\frac{1}{4}$ ". 13 lbs.
57 DX 566. \$5 Monthly. 23.61

UXT-5 SUPER TWEETER. (Not illus.) Use with N-1 filter. 4500-17,500 cps. 50 watts. 8 ohms. $4\frac{1}{4}$ "x $2\frac{1}{2}$ "x4". $1\frac{3}{4}$ lbs.
71 D 052. \$5 Monthly. 20.51

HF-206 HYPERSONIC TWEETER. Wide-angle horn gives 120° horizontal and 50° vertical dispersion. 3500 cps to beyond audibility. Capacity, 50 watts. For use in 3-way systems, requires N-1 high-pass filter (described at left). 8 ohms. $6\frac{1}{8}$ "x $3\frac{1}{2}$ "x $6\frac{1}{8}$ ". Shpg. wt., $3\frac{1}{2}$ lbs.
71 D 051. \$5 Monthly. 32.30

Exciting Speaker Systems by FISHER

SPACE SAVERS WITH A BIG SOUND, A SMART STYLE

DELUXE KITS—ASSEMBLE IN MINUTES

You can see, and even feel, the fine Fisher quality of each component in these speaker systems, as you swiftly assemble them with ordinary household tools. Beautifully styled, you can proudly display them on floor, bookshelf, or wall. All feature AcoustiGlas padding to prevent resonance and vibration.

SERIES KS-1 3-WAY SPEAKER SYSTEMS. Components are precision-balanced at the factory to assure extra-smoothness response. Employ 10" woofer with 4-lb. magnet structure; 5" mid-range unit; 3" super tweeter for brilliant highs; 3-way crossover network. Response, 40-18,500 cps. Capacity, 40 watts. Impedance, 8 ohms. Crossovers, 1400 and 5000 cps. Only 28x5 $\frac{3}{4}$ " deep. With instructions. Shpg. wt., 33 lbs.

DU 153. Model KS-1-B Kit. Unfinished, smooth-sanded solid birch ready for painting or staining. \$5 Monthly...\$9.50
DU 154. Model KS-1-W Kit. In unfinished, smooth sanded solid walnut. \$5 Monthly...\$64.50
DU 156. Model KS-1-AW. Factory assembled. Finished in solid walnut. \$5 Monthly...\$89.50

SERIES KS-2 3-WAY SPEAKER SYSTEMS. Similar to KS-1. 12" woofer with 6-lb. magnet; 5" mid-range; 3" tweeter with 2-lb. magnet; 3-way crossover—(1200, 2800 cps). 25 cps to beyond capability! 20x25x6 $\frac{1}{2}$ ". 38 lbs.

DU 214-D. Model KS-2-B Kit. Unfinished, smooth-sanded solid birch ready for painting or staining. \$5 Monthly...\$89.50
DU 215-D. Model KS-2-W Kit. In unfinished, smooth-sanded solid walnut. \$5 Monthly...\$94.50
DU 216-D. Model KS-2-AW. Factory assembled. Finished in solid walnut. \$6 Monthly...\$119.50

CHECK THESE FEATURES

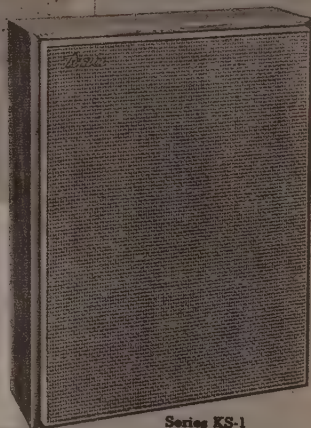
- ✓ Free-Piston Woofer
- ✓ Mid-Range Speaker
- ✓ Super Tweeter
- ✓ 3-Way Crossover
- ✓ AcoustiGlas Padding

SLIM-LINE

As low as **\$59⁵⁰**



Series KS-2



Series KS-1

SERIES XP LABORATORY-DESIGNED SPEAKER SYSTEMS



XP-1A
XP-2A
XP-4A

Developed to meet exacting high-fidelity specifications. Provide high degree of audio power within minimum of enclosure space.



Model WS-1

NEW
Model
XP-10



MODEL XP-2A 3-WAY SYSTEM. Outstanding fidelity and compact size at a moderate price. Has 10" woofer, 5" mid-range speaker, 3" tweeter and two LC crossovers—(1600 and 5000 cps). 30-18,000 cps; 30 watts; 8 ohms. Mahogany or oiled walnut—specify. 22x22x11 $\frac{1}{4}$ ". Shpg. wt., 38 lbs.
DU 161C. \$5 Monthly...\$84.50

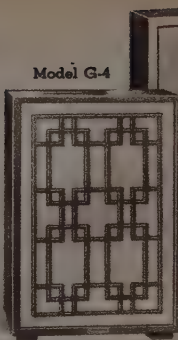
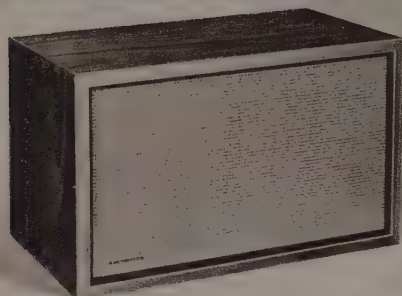
MODEL XP-1A 3-WAY SYSTEM. Big sound from this compact but luxuriously styled unit. Consists of: 12" woofer with 2", long-throw voice coil and dual-diameter magnet; 5" mid-range speaker; 3 $\frac{1}{2}$ " tweeter; two LC crossovers—(1800 and 3000 cps); brilliance control. AcoustiGlas-lined. 30-18,000 cps. Capacity, 60 watts. Impedance, 8 ohms. Mahogany or oiled walnut—specify. 13 $\frac{1}{2}$ x4x11 $\frac{1}{4}$ ". Shpg. wt., 48 lbs.
DU 129C. \$7 Monthly...\$129.50
DU 119. Universal Base. For XP-1A, XP-2A, XP-4A. Shpg. wt., 6 lbs...\$9.95

XP-4A 3-WAY SPEAKER SYSTEM. Delivers exceptionally smooth response with extremely low distortion. Woofer frame has been eliminated permitting use of fiberglass packing directly behind speakers. System consists of: 12" woofer with 2" voice coil; two 5" mid-range speakers; 3-way crossover (1200 and 2500 cps); balance controls. Response, 28-20,000 cps. Capacity, 60 watts. Impedance, 8 ohms. Mahogany or oiled walnut—specify finish. 14x24 $\frac{1}{2}$ x12". Shpg. wt., 60 lbs.
DU 157C. \$10 Monthly...\$199.50

WS-1 "WIDE-SURROUND" SYSTEM. A pair of WS-1's used with an existing stereo speaker system effectively reduces "point source" stereo and provides wider area stereo coverage. 12-watt, 10x2 $\frac{3}{4}$ ", 8-ohm speaker has 250-15,000 cps response. Walnut finish. 3 $\frac{1}{2}$ x11 $\frac{1}{2}$ x4 $\frac{3}{8}$ ". 13 lbs.
DU 104-2. \$5 Monthly. PER PAIR \$49.50

NEW DELUXE XP-10 SYSTEM

A superlative 3-way speaker system for those who want Fisher's finest. Combines best-quality speakers in a striking, contemporary floor cabinet, to offer you magnificent high-fidelity sound and beautiful furniture design. Consists of: 15" heavy-duty, high-compliance woofer with 6-lb. magnet structure for tight, natural bass; 8" mid-range speaker with 5 $\frac{1}{2}$ -lb. magnet structure for unusually smooth, widely dispersed sound; dome-type tweeter with 5 $\frac{1}{2}$ -lb. magnet structure for most brilliant highs; 3-way crossover network (300 and 2500 cps). Response from 28 cps to beyond audibility! 75-watt capacity. Requires 10 watts, min. 8-ohms impedance. Hand-rubbed, oiled walnut cabinet; 30 $\frac{1}{4}$ x24 $\frac{3}{4}$ x14 $\frac{3}{8}$ ". Shpg. wt., 83 lbs.
DU 217. \$13 Monthly...\$249.50



Speakers by Goodmans of England

Model G-12 3-WAY SYSTEM

as low as
\$1100

Wide Range Speaker
System with "Magnafoam"
Woofer Cone—Ebony
Grille and Gold Frame

Wide response, new engineering and styling features, and precision components combine to make this shelf system an extraordinary value. Consists of a 12" speaker with new "Magnafoam Plastik" cone for distortionless bass, an 8" mid-range unit, a high efficiency compression tweeter, and 2 LC crossover networks. Tweeter has level control. Frequency response, 30 to 20,000 cps. $\frac{3}{4}$ " stock, bookcase-size cabinet is finished in hand rubbed oiled walnut. Features a special framing of tooled $\frac{3}{4}$ " hardwood ebony bevel around grille cloth, trimmed in eye-catching 14 carat gold. Impedance, 16 ohms. 14x24x12". 30 watts. Wt., 47 lbs.
70 DU 218. \$6 Monthly... **EACH 119.50**
TWO OR MORE... **EACH 111.00**

DECORATOR-STYLED THIN-LINE SPEAKER SYSTEMS

MODEL G-4 3-WAY SYSTEM. Gives you deluxe sound and styling. Has three 10" woofers with "Rigidflex" hyperbolic floating cones; 6" mid-range speaker; $\frac{3}{4}$ " tweeter; 5000 cps crossover network; tuned port. Response, 40-17,000 cps. Oiled walnut veneer. 25x20x6 $\frac{1}{4}$ ". 16 ohms. 60 watts. With unattached 1" legs for vertical or horizontal placement. 30 lbs.
70 DU 194. \$5 Monthly... **89.50**
TWO OR MORE... **EACH 84.50**

MODEL G-11 3-WAY SYSTEM. Employs new "Magnafoam" bass cone with extra long throw voice coil for distortion-free bass. 12" woofer; 8" mid-range; compression tweeter; and 2 LC crossovers. 30-30,000 cps. Cabinet is $\frac{3}{4}$ " stock, hand-rubbed oiled walnut veneer. $\frac{3}{4}$ " ebony framing trimmed in 14K gold around grille cloth. 20x28x6 $\frac{1}{2}$ ". 30 watts. 16 ohms. 33 lbs.
70 DU 220. \$5 Monthly... **119.50**
TWO OR MORE... **EACH 111.00**

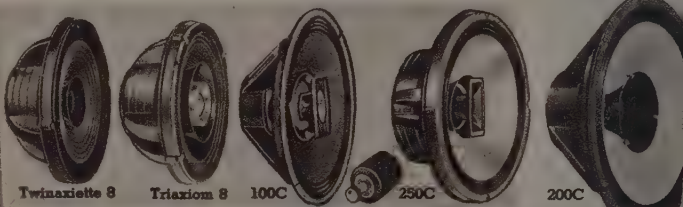
G-2X 3-WAY SYSTEM. 10" woofer with "Rigidflex" floating piston hyperbolic cone; 6" mid-range; $\frac{3}{4}$ " tweeter; 5000 cps crossover network; and tuned port. Response, 40-17,000 cps. Hand-rubbed oiled walnut veneer; gold-trim ebony frame around grille cloth. 25x17x5 $\frac{1}{4}$ ". 20 watts. 16 ohms. Unattached 1" legs allow floor placement. Shpg. wt., 28 lbs.
70 DU 219. \$5 Monthly... **59.50**
TWO OR MORE... **EACH 56.50**

MODEL G-14 3-WAY SYSTEM. Up-to-the-minute slim styling and outstanding performance. Uses new 15" bass unit with "Magnafoam" diaphragm. Also: 8" Super-dome mid-range speaker, wide-angle compression tweeter, 900 and 5000 cps variable LC crossover networks. 30-20,000 cps. Oiled walnut cabinet, gold framing. 28x20x8 $\frac{1}{2}$ ". 35 watts. 16 ohms. 70 lbs.
70 DU 221. \$8 Monthly... **149.50**
TWO OR MORE... **EACH 139.00**



Top Value!
900C 12"
"Tri-Triaxiom"
3-WAY
SPEAKER
each
\$46.50
in pairs

Outstanding value—3 completely independent, concentrically mounted speaker elements, each with its own separate voice coil. Employs low-resonance, free floating "Magnapiston" cellular felted bass cone. An independent mid-frequency transducer reinforces the 900 to 16,000 cps range. A new provides superb reproduction of frequencies from 5000 to 20,000 cps. Has separate 900 and 5000-cycle LC crossover networks; plus treble control. Response, 30-20,000 cps. Capacity, 25 watts. 16 ohms. Wt., 12 $\frac{1}{2}$ lbs.
71 DU 236. \$5 Monthly... **49.95**
TWO OR MORE... **EACH 46.50**
71 DU 237. 905C. 15" version of above. 25-20,000 cps. 35 watts. 21 lbs... **69.95**
TWO OR MORE... **EACH 65.00**



ADVANCED DESIGN WIDE-RANGE SPEAKERS

TWINAXIETTE 8. Heavy-duty dual cone 8" speaker delivering a smooth response from 40 to 18,000 cps. Features hyperbolic free-dome cone suspension and diecast chassis. 15 watts. 16 ohms. 9 lbs.
71 D 177... **18.95**
TWO OR MORE... **EACH 16.95**

TRIAXIOM 8. 3-way 8" "SupRoam" speaker with 40-20,000 cps response. Electrical crossover at 5000 cps—compression tweeter. Tone control on 30" cable. 15 watts. 16 ohms. Wt., 11 lbs.
71 DX 175. \$5 Monthly... **29.50**
TWO OR MORE... **EACH 26.50**

TRIAXIOM 100C. 12" 3-way speaker featuring 3 radiators concentrically placed to produce smooth sound from 20 to 20,000 cps. Electrical crossovers at 2000, 5000 cps. 20 watts. 16 ohms. 11 lbs.
71 DU 172. \$5 Monthly... **34.50**
TWO OR MORE... **EACH 31.00**

250C. Heavy-duty, 12" 3-way speaker. Features: 2 $\frac{1}{2}$ lb. ceramic magnet; "SupRoam" woofer; "Axiom Plastik" radiator; compression horn tweeter. Smooth response from 20 cps to beyond audibility. Crossovers at 2000, 5000 cps. Resonance, 35 cps. 60 watts. 16 ohms. Shpg. wt., 20 lbs.
71 DU 170. \$5 Monthly... **59.50**
TWO OR MORE... **EACH 55.50**

TWINAXIOM 200C. 12" speaker features new "SupRoam" cone to assure exceptionally uniform response in the critical bass region of 30 to 2000 cps. Overall frequency range, 30 to 18,000 cps, with crossover at 2000 cps. Additional features: low-resonance floating piston woofer; "axiom plastik propagator" for uniform reinforcement of 2000-18,000 cps range; two-way point source; 1-lb. cylindrical ceramic magnet. 20 watts. 16 ohms. 11 lbs.
71 DU 180. \$5 Monthly... **24.50**
TWO OR MORE... **EACH 22.00**

World-Famous British Speakers by Wharfedale

MODEL W60 2-WAY SPEAKER SYSTEM

Designed with the critical audio connoisseur in mind, the Wharfedale W60 is an outstanding value at a moderate price. Employs Wharfedale's unique sand-filled principle—two layers of wood with completely inert filler of dry sand between them for resonance-free reproduction. This remarkable feature produces full, rich bass down to 20 cycles—doesn't allow false resonances to interfere with your listening pleasure. Fine for floor placement with optional base, beautiful Magnificent sound is delivered by a highly effective combination of specially designed 5" tweeter and 12½" woofer, critically matched to the enclosure. Finished on four sides. 14¼x24x13". Capacity, 30 watts. 8 ohms. In mahogany or oiled walnut—specify.

g. wt., 53 lbs.
DU 038C. \$6 Monthly.....116.50
DU 039. Unfinished. Less divider, curved molding.....101.50

MODEL W70 3-WAY SPEAKER SYSTEM

Unrivalled fidelity and tasteful styling are yours with this superb system. Consists of: 12½" woofer with massive 9½-pound magnet for extended bass; 10¼" mid-range for presence and clarity; tweeter, delivering pure, widely-dispersed highs; LC network crossover at 1500 and 6000 cps; brilliance control for high-frequency adjustment. Sturdy enclosure—two layers of wood with sand between. Can be placed on floor with optional base, below. 21x12". Capacity, 30 watts. 8 ohms. Finished on four sides. In mahogany or oiled walnut—specify. Shpg. wt., 68 lbs.

DZ 659C. \$9 Monthly.....164.50
DZ 660. Unfinished. Less dividers, curved molding.....146.50
DZ 699. W70 Provincial. Same as W70 above, but in Fruitwood mah., with legs. 27½x22½x12½". \$10 Monthly.....189.50

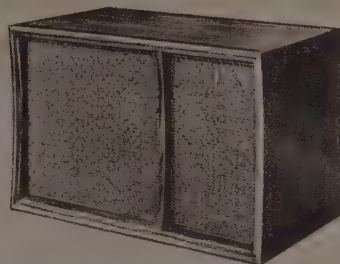
NEW MODEL W90 DUAL 3-WAY SPEAKER SYSTEM

Wharfedale's finest. Features 6 speakers in a dual 3-way system. Components are superbly balanced, and tuned to the sand-filled enclosure for powerful bass down to the lowest audible frequencies plus startling resolution in the mid and upper ranges. Consists of: each of the following; 12½" woofer; 5¼" mid-range unit; 3" tweeter; and LC crossover (500 and 6000 cps). Each woofer is in an individual chamber tuned for optimum performance (while reinforcing the other), and isolated from other components to prevent mechanical coupling. Mid-range and tweeter units are mounted in the rear with free-floating fronts to prevent phase distortion. Each speaker-group can be adjusted to room acoustics. Use optional base, below, for floor use. 32¼x27¼x13½". 40-watt cap. 8 ohms. In mahogany or oiled walnut—specify. Shpg. wt., 123 lbs.

DZ 289C. \$13 Monthly.....259.50
DZ 293. Unfinished. Less divider, curved molding.....244.50
DU 590C. Universal 4-Leg Mounting Base. For W60, W70, and W90. In mahogany or oiled walnut—specify. 10 lbs.....9.95
DU 554. As above, but unfinished.....8.95

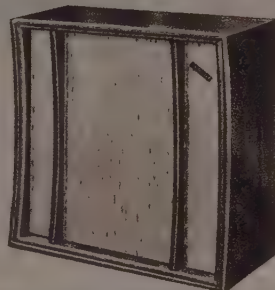
Model W60

As low as
\$101.50
\$6 monthly



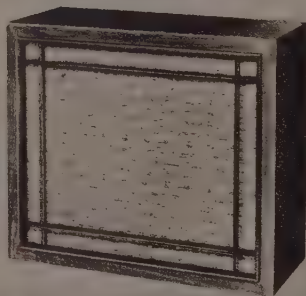
Model W70

As low as
\$146.50
\$8 monthly



NEW Model W90

As low as
\$244.50
\$13 monthly



A

\$79.50

Compact
Model W40



B

\$89.50

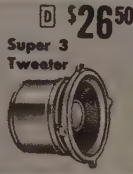
Super
12/RS/DD



C

\$26.50

Super
8/RS/DD



D

\$26.50

Super 3
Tweeter

MODEL W40. Two-way speaker system. Compact and economy-priced, designed for use in limited-space music systems. Excellent full range reproduction. The W40 uses two specially designed and carefully tuned speakers—8½" woofer with high-density magnet and 5" tweeter—in the famous sand-filled enclosure. Crossover frequency is 1500 cps. High-frequency control adjustment for matching room acoustics. Only 12x24x10". Capacity, 40 watts. Impedance, 8 ohms. Finished on four sides. In mahogany or oiled walnut—specify. Shpg. wt., 40 lbs.
DU 0295C. \$5 Monthly.....79.50

MODEL SUPER 12/RS/DD. Full-range 12" speaker. Delivers outstandingly rich, natural sound. Features: powerful Alcomax III ceramic magnet, providing high flux density of 17,000 gauss (total flux, 190,000) for stability; aluminum voice coils for maximum high-frequency response; die-cast frame in conjunction with roll surround suspension for maximum bass response even in the smallest enclosures. Frequency range, 25-20,000 cps. Cone resonance, 23-28 cps. 40-watt power capacity. Voice coil impedance, 12-15 ohms. Overall speaker depth is 7". Shpg. wt., 22 lbs.
71 DU 183. \$5 Monthly.....89.50

MODEL SUPER 8/RS/DD. Full range 8" speaker. Aluminum voice coil, and roll suspension. 40-20,000 cps. 15 watts. 10-15 ohms. Bass resonance, 50-60 cps. Depth, 3½". 5 lbs.
71 D 235. \$5 Monthly.....26.50

SUPER 3. Hi-Fi tweeter. Produces 1000-20,000 cps. 20 watts. 8 ohms. Dia., 3½". 2½" deep. 4½ lbs.
71 D 185. \$5 Monthly.....26.50
15 L 192. 4-mid Frequency-Dividing Capacitor. For using Super 3 with Super 12 RS/DD, or other speakers. Provides 3000 cps high-pass filter. 4 oz.....60¢

Buy Your Speaker Now on Allied's Credit Fund Plan

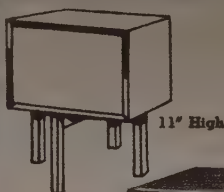
ALLIED 195

AR ACOUSTIC SUSPENSION SPEAKER SYSTEMS



AR-2A With 10" Woofer,
2-5" Mid-Range Speaker
and 1 1/2" Tweeter

AR Speaker Stand for Horizontal
Mounting of Any AR System



AR Speaker
Base For Floor
Mounting In
Limited Space



AR-3 With 12" Woofer
Plus 2" Mid and High-
Range Dome Radiators

WORLD FAMOUS FOR SUPERB HI-FI SOUND

Acoustic suspension technique utilizes sealed-in air within the enclosure as a pneumatic spring for the speaker cone during large excursions on very low bass notes. The exceptionally high power-handling capacity and thrilling sound quality of these systems make them an excellent choice for the critical listener. Finished on four sides—can be mounted vertically or horizontally.

AR-2A ACOUSTIC SUSPENSION SPEAKER SYSTEM

- as low as
- Extremely Clean Bass Reproduction
 - Super-Tweeter Delivers Purest Highs
 - Sealed, Fiberglass-Filled Cabinet

\$109.00

Acoustic suspension design, with 10" woofer, in this exciting 3-way system provide a rich natural bass; two 5" speakers deliver a full-bodied mid-range; dome-type super tweeter produces sparkling clear highs. Sealed fiberglass-filled cabinet of braced 3/4" hardwood veneer is available in choice of finishes (all four sides): natural birch, mahogany or oiled walnut—and also unfinished. Requires amplifier rated at least 20 watts (for stereo, amplifier should be rated 20 watts per channel). Response, 30 to 20,000 cps. Crossovers at 2000 and 7500 cps. Size, 13 1/2 x 24 x 11 1/2". Dispersion, 90°. Impedance, 8 ohms, 41 lbs.

70 DU 600, Natural Birch, \$7 Monthly.....	122.00
70 DU 601, Mahogany, \$7 Monthly.....	122.00
70 DU 027, Oiled Walnut, \$7 Monthly.....	128.00
70 DU 028, Unfinished, \$6 Monthly.....	109.00

AR-2 ACOUSTIC SUSPENSION SPEAKER SYSTEM

Same as AR-2A, but less super tweeter. Wt., 39 lbs.

70 DU 145, Natural Birch, \$5 Monthly.....	96.00
70 DU 146, Mahogany, \$5 Monthly.....	96.00
70 DU 623, Oiled Walnut, \$6 Monthly.....	102.00
70 DU 147, Unfinished, \$5 Monthly.....	89.00

Speakers and Speaker

AR-3 ACOUSTIC SUSPENSION SPEAKER SYSTEM

When space is at a premium and the finest quality sound is desired, this superb 3-way speaker system is the answer. Has 12" woofer with 3 1/4-lb. magnet; 2" mid-range dome radiator with 3 1/4-lb. magnet; and dome tweeter. Crossovers at 1000 and 7500 cps. Has level controls. 38-20,000 cps (± 2 db). Needs amplifier rated 25 watts or more (each channel for stereo). 3 finishes, all four sides for vertical or horizontal mounting—or unfinished. 14x25x11 1/2". 4 ohms. Shpg. wt., 63 lbs. Shipped express only.

70 DZ 149, Natural Birch, \$11 Monthly.....	216.00
70 DZ 148, Mahogany, \$11 Monthly.....	216.00
70 DZ 624, Oiled Walnut, \$12 Monthly.....	225.00
70 DZ 002, Unfinished, \$11 Monthly.....	203.00

AR SPEAKER STAND AND BASE

AR SPEAKER STAND. For horizontal mounting of any AR speaker system. Finished in handsome oiled walnut, with wrought iron legs. With hdwe., tool and instructions for easy assembly. Size, 29x30 1/2 x 15 1/2". Shpg. wt., 26 lbs.

71 D 013, \$5 Monthly.....	30.00
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AR SPEAKER BASE. For mounting enclosures near floor in limited space. Finished in oiled walnut. 11x14 1/2 x 13". 4 lbs.

71 D 015.....	7.50
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Professional-Standard Speakers

MODEL 605A 15" DUPLEX SPEAKER

A speaker designed for those who insist upon the finest in audio reproduction. The 605A consists of two mechanically and electrically independent loudspeakers mounted on a single frame for compactness, point-source relation, phasing and installation ease. Uses high compliance cone suspension for controlled linear excursion. Delivers frequency range of 20 to 22,000 cps, flat from the lowest to highest note. Bass section has 3" voice coil and 2 1/2 lb. magnet; treble section, 1 3/4" aluminum voice coil. Exponential multi-cellular horn produces 40° vertical and 90° horizontal dispersion. Includes 1600 cycle crossover network. Power handling capacity, 35 watts. Impedance, 16 ohms. Shpg. wt., 40 lbs.

71 DU 213, \$9 Monthly.....	168.00
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755-C 8" SPEAKER

Compact, "pancake" speaker famous for brilliant performance. Employs "Biflex" multiple concentric compliance. Features a remarkable wide frequency range of 40 to 15,000 cps with minimum distortion, and smooth 90° dispersion. Has Index V, 1 1/2-lb. magnet, edge-wound aluminum voice coil and deep magnetic gap for precise cone control. 2 1/4" deep. Power handling capacity, 15 watts. Impedance 8 ohms. 9 lbs.

71 DU 217.....	29.95
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Systems for Luxurious Stereo Sound

JBL

JBL



LE10A



LE30
Driver



LE8

JBL "LINEAR EFFICIENCY" SPEAKERS AND DRIVER

JBL "MAXIMUM EFFICIENCY" SPEAKERS AND DRIVER

075 Maximum Efficiency
High Frequency Driver



D131 12"
Extended-Range Speaker



D123 12"
Extended-Range Speaker

JBL LINEAR EFFICIENCY LOUDSPEAKERS

LE10A 10" WOOFER. Generates powerful bass fundamentals in enclosures as small as 1 cubic ft. Has 6-lb. magnet, 3" edgewound copper ribbon voice coil, rigid cast aluminum frame. 15 cps resonance. 30 watts. 16 ohms. Shpg. wt., 16 lbs.

D 192. \$5 Monthly.....**\$7.00**

LE30 HIGH FREQUENCY DRIVER. For use only with LX3-1 crossover network, below. With LE10A, above, makes two-way system. 30 watts, with LX3-1 below. 16 ohms. Wt., 7 lbs.

D 193. \$5 Monthly.....**\$7.00**

LX3-1 CROSSOVER NETWORK. For LE30, above. 16 ohms. 6 lbs.

D 194. \$5 Monthly.....**\$21.00**

LE8 8" EXTENDED RANGE SPEAKER. For use in enclosures of minimum dimensions. Mounts front or rear. 30-20,000 cps. 20 watts. 3 3/8" depth. 16 ohms. Shpg. wt., 14 lbs.

D 191. \$5 Monthly.....**\$66.00**

JBL MAXIMUM EFFICIENCY LOUDSPEAKERS

D131 12" EXTENDED RANGE SPEAKER. 30-17,000 cps. 25 watts. 16 ohms. 4 5/8" depth. Shpg. wt., 24 lbs.

71 DU 195. \$5 Monthly.....**\$96.00**

D130 SPEAKER. Same as D131 above, but 15". Resonance, 37 cps. Shpg. wt., 26 lbs.

71 DU 196. \$6 Monthly.....**\$102.00**

D123 12" EXTENDED RANGE SPEAKER. 30-15,000 cps. 20 watts. 16 ohms. 3 3/4" depth. Wt., 15 lbs.

71 DU 200. \$5 Monthly.....**\$72.00**

075 HIGH FREQUENCY DRIVER. For systems crossing over at 2500 cps or higher. 16 ohms. 20 watts. 3 1/4" depth. 6 lbs.

71 D 201. \$5 Monthly.....**\$63.00**

N2600 CROSSOVER. For use with 075 above. 2500 cps. 16 or 32 ohms. 4 3/4"x6x3 1/2". Shpg. wt., 6 3/4 lbs.

71 D 202. \$5 Monthly.....**\$7.00**

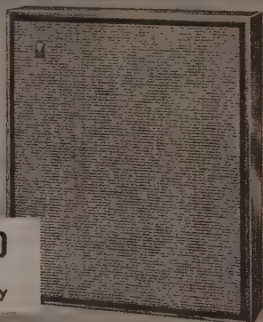


\$9300
\$5 monthly



\$9300 \$5
monthly

Only
5 1/2" Deep!
Makes Room
Placement
Simple



\$11700
\$6 monthly

LANCER SPEAKER SYSTEMS

MODEL L33. Exciting sound and styling characterize this moderately priced compact system. Features full-range LE8 speaker and ported enclosure for distortion-free 35-15,000 cps response. In oiled walnut. Size, 12 3/4"x23 1/2"x11 3/4". Capacity, 20 watts. 8 ohms. 45 lbs. Shipped express.

70 DZ 680. \$5 Monthly.....**\$93.00**

MODEL L66. "Linear Efficiency" 2-way system using 10" woofer and a high-frequency tweeter for superb sound. 15-18,000 cps response. Requires amplifier of at least 20 watts (stereo, 10 watts per channel). In oiled walnut. 14 3/4"x23 1/2"x11 3/4". 30 watts. 8 ohms. 51 lbs. Shipped express.

70 DZ 682. \$7 Monthly.....**\$147.00**

C36 AND C38 ENCLOSURES

C36 ENCLOSURE. Bass-reflex type speaker cabinet in graceful contemporary styling. Features elegant hand-rubbed oiled walnut finish and lock-mitred wood-welded construction. Engineered to deliver full range response when used with any of the JBL extended range speakers listed above. Accepts any 8", 12" or 15" speaker as well as two-way systems. Overall size, 29 1/2"x19 3/8"x15 7/8". With 5" metal legs. Shpg. wt., 50 lbs. Shipped express.

70 DZ 198. \$5 Monthly.....**\$93.00**

C38 ENCLOSURE. Similar to C36 above, but in low boy styling. 24 3/8"x23 3/4"x15 7/8". With 5" legs. 50 lbs. Shpg. exp.

70 DZ 200. \$5 Monthly.....**\$93.00**

TRIMLINE 54 SPEAKER SYSTEM

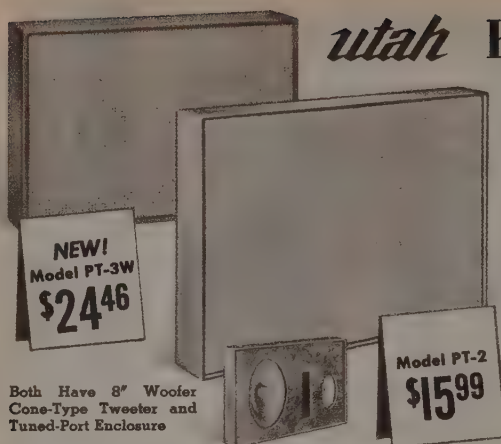
A significant achievement in the development of an extremely compact speaker system—delivers clean, natural sound over a wide frequency range even though it requires only a minimum of space. New low frequency radiator and LE8 speaker provide pure sound reproduction. In looks, the Trimline 54 is a portrait of enduring simplicity—at home with any decor; and so compact (only 5 1/2" deep) that room placement is simple—hangs on the wall, sits comfortably on a shelf or on the floor. 30-20,000 cps response. 23 3/4"x20x5 1/8". In oiled walnut on all 4 sides—use vertically or horizontally. 25 watts. 8 ohms. 32 lbs.

70 DU 196. \$5 Monthly.....**\$117.00**

You Get More For Your Money From Allied

ALLIED 197

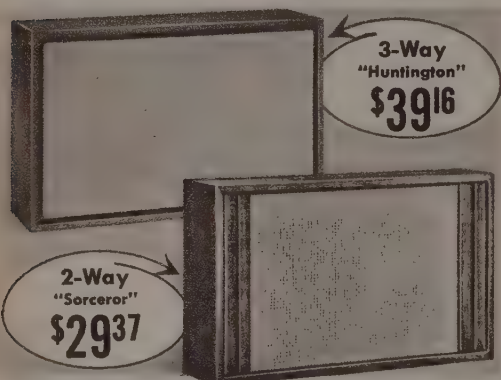
Utah Hi-Fi Speaker Systems



NEW!
Model PT-3W
\$2446

Model PT-2
\$1599

Both Have 8" Woofer
Cone-Type Tweeter and
Tuned-Port Enclosure



3-Way
"Huntington"
\$3916

2-Way
"Sorcerer"
\$2937

"HUNTINGTON" 3-WAY SPEAKER SYSTEM

MODEL SH-5. You'll get a "big sound" at low cost from this complete 3-speaker system. In keeping with today's trend toward slim profiles, the "Huntington" permits use on tables or shelves, in music walls or even on the floor. An 8" woofer, 6" mid-range, and 5" tweeter with electrical crossovers combine with a ducted-port bass reflex enclosure for thoroughly pleasing 35-17,500 cps response. Fine-furniture walnut veneer finish. Size: 13½x22x6". Capacity 18 watts. Impedance, 8 ohms. Shpg. wt., 15 lbs.
70 DU 209. \$5 Monthly.....**39.16**

"SORCERER" 2-WAY SPEAKER SYSTEM

MODEL SH-4W. Extra-compact speaker system gives you excellent sound plus fine furniture quality—an outstanding value at surprising low cost. An 8" woofer, 3½" tweeter in a ½" plywood enclosure deliver rich, full sound with 45-17,000 cps response. Attractive cabinet has hand-rubbed walnut veneer that matches any listening room decor. Measures just 12x20x5"—use it on wall, shelf or floor. 12 watts. 8 ohms. Shpg. wt., 13 lbs.
70 DU 178. \$5 Monthly.....**29.37**



AD-1AS
2-Way
System
\$3995

"Petite"
2-Way
System
\$2440

"PICTURE THIN" 2-WAY SYSTEMS

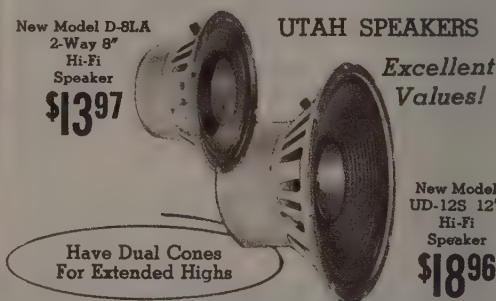
MODEL PT-3W "STARLETTE." Deluxe "picture-thin" 2-way speaker system combining attractive styling, fine-furniture finish and exceptional hi-fi sound. Use it anywhere—place it on shelf, table, floor, or hang it on the wall. Features 8" woofer and cone-type high-frequency tweeter with 2000-cps crossover in an enclosed-back, bass-reflex enclosure. Tuned port for smooth, wide-range response without distortion. Hardwood cabinet has fine hand-rubbed genuine oil-walnut veneer finish—trim lines and handsome grille matches decor. Includes built-in volume control. 12x20x3½". Capacity, 8 watts. 8 ohms. Shpg. wt., 9 lbs.
70 DX 208. \$5 Monthly.....**24.46**

MODEL PT-2. Add impressive sound to your home—without disturbing room decor. Only 3" deep, may be hung on the wall just as easy as you hang a picture. Ideal for high fidelity systems where floor space is limited, or as a remote speaker to carry music to other rooms. Utilizes a special 8" woofer for excellent bass; 3x5" cone-type tweeter with 2000 cps crossover for clean highs; and tuned-port, open-back baffle enclosure. With hardware for easy installation. Size, 12x18x3". Power handling capacity, 8 watts. Imp., 8 ohms. Mahogany, blonde or walnut finish—specify. Shpg. wt., 9 lbs.
70 DX 211C. Specify Finish.....**15.99**

New Model D-8LA
2-Way 8"
Hi-Fi
Speaker
\$1397

UTAH SPEAKERS

Excellent
Values!



Have Dual Cones
For Extended Highs

New Model
UD-12S 12"
Hi-Fi
Speaker
\$1896

MODEL DL-8A 8" TWO-WAY SPEAKER

Get excellent sound quality at little cost. Features exclusive "dual-diameter" 10-oz. magnet that concentrates flux power for greater efficiency—twice the sound per watt. 8" woofer cone, high-frequency whizzer cone and 1¼" voice coil provide pleasing 40-16,000 cps response. Ideal for use in economy hi-fi systems. Four-way color-coded binding port terminals simplify connection. Speaker mounting depth, 4". Power handling capacity, 18 watts. Impedance, 8 ohms. Shpg. wt., 4 lbs.
71 D 001.....**13.97**

NEW MODEL UD-12S TWO-WAY 12" SPEAKER

An unbeatable bargain at this low price. Provides remarkable 25-16,500 cps response! Heavy-duty 1-lb. "brute-force" Alnico V magnet supplies high flux level to 2" voice coil, and treated 12" woofer cone provides full bass response without distortion. Whizzer cone greatly extends high-frequency response. Handles 30 watts. Has color-coded binding port terminals. Mounting depth, 6¼". Impedance, 8 ohms. Shpg. wt., 11 lbs.
71 DX 002.....**18.96**

Argos Economy 2-Way Speaker Systems

FEATURING JENSEN SPEAKERS

MODEL AD-1AS. Fine-sounding floor system at a low price. Has two matched Jensen speakers—a 12" woofer and a 3½" tweeter with crossover. Argos tube-vented enclosure gives full tonal balance. 22½x19¼x10¼". Capacity, 18 watts. Imp., 8 ohms. Blonde or walnut woodgrain finish—specify. Shpg. wt., 30 lbs.
70 DU 213C. \$5 Monthly.....**39.95**

"PETITE." Compact 2-way system with Jensen woofer and tweeter plus crossover. Rich bass, clean highs. Use on shelf, table, floor or wall. Volume control, brass legs, wall hangers. 18x12x3¾". Hand-rubbed walnut finish. Handles 6 watts. 8 ohms. 13 lbs.
70 DX 212. \$5 Monthly.....**24.40**

Extended-Range Speaker Systems by



WIDE-RANGE 2-WAY SHELF SYSTEMS

DELUXE MODEL 4. KLH's best compact shelf system—designed to please the hi-fi connoisseur. Highly damped with tremendous transient response. Sealed 1.5 cubic-ft. enclosure houses a precision 12" acoustic suspension woofer, two direct-radiator tweeters, and crossover. LC crossover includes controls that permit adjustment of levels above 1500 and 6000 cps. Handles a full 75 watts (requires 30-watt minimum input). Impedance 16 ohms. Size, 3½x25x12". Shpg. wt., 45 lbs.

0 DU 168. Mahogany Finish. \$12 Monthly.....224.00
0 DU 173. Oiled Walnut Finish. \$12 Monthly.....231.00

MODEL 6. Wide-range system with extraordinary transient response for clean, natural sound. 12" long excursion acoustic-suspension woofer and stylus-suspended direct-radiator tweeter with ½" cone excursion. 3-position high-frequency control. 1.3 cubic-ft. enclosure is of ¾" veneered plywood. 0-watt capacity (requires 20-watt minimum input). Impedance, 8 ohms. Size, 3½x12½x11½". Shpg. wt., 37 lbs.

0 DU 166. Mahogany Finish. \$7 Monthly.....129.00
0 DU 167. Oiled Walnut Finish. \$7 Monthly.....134.00
0 DU 475. Unfinished Fir. \$6 Monthly.....119.00



Model 4
Model 6

Finished on Four Sides
—Place Them Vertical-
ly or Horizontally



Model 14 Slim-Line Speaker System

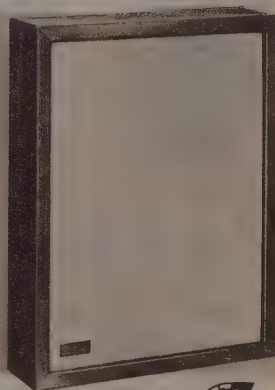
Introducing KLH's newest shelf enclosure of slim-line, space-conserving design. Produces high-fidelity sound that's a pleasure to hear—you get precision construction and excellent quality at a low price. Utilizes two specially-designed, extremely-compliant full-range speakers in an enclosure that is only 3¾" deep. "Frequency Contouring" provides excellent response—a passive electronic network reshapes the output of conventional amplifiers to match the low-frequency power requirements of the speakers. Results in response curve remaining flat far below its normal roll-off point. Size, 14x18x3¾". May be used with amplifiers with output of 12 watts or larger. Impedance, 8 ohms. Handsome oiled walnut finish. Shpg. wt., 20 lbs.

70 DU 282. \$5 Monthly.....49.50

Exceptionally Compact
Speaker System
Gives Excellent
Response at
Low Cost

Only
3¾"
Deep

\$49.50
\$5 Monthly



as low as
\$86.00
Unfinished
KLH MODEL 10
2-WAY BOOK-SHELF
SPEAKER SYSTEM
Available in Mahogany,
Oiled Walnut, Unfinished

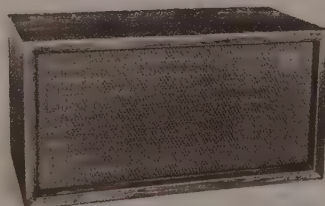
2-way shelf speaker system is economical in price, yet provides thrilling wide-range response that is characteristic of all KLH speaker systems.

2-way design—the low-frequency woofer is a special 10" high-compliance speaker. A small cone-type direct-radiator tweeter efficiently propagates the higher frequencies. Components are housed in a 23½x11½x8¾" ported cabinet. Pre-finished models are finished on all four sides—you can place them horizontally or vertically on shelves, tables, or floors.

Requires as little as 12 watts driving power, but easily handle up to 60 watts. Impedance, 8 ohms. In mahogany or oiled walnut finish—specify choice. Shpg. wt., 31 lbs. \$5 Monthly.

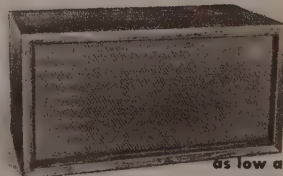
70 DU 283C. Specify Finish.....99.00
70 DU 177. Unfinished Birch.....86.00

EMI Shelf Speaker Systems



Model DLS-529 2-Way
Shelf Speaker System

\$159.00



Model 630 2-Way
Speaker System

as low as
\$64.75
Unfinished

DELUXE DLS-529 2-WAY SPEAKER SYSTEM

Fine-sounding hi-fi speaker system providing authentic 40-15,000 cps response. Utilizes an exclusive hand-made elliptical-cone 13½x8½" woofer with polyvinyl chloride cone suspension and enclosed back. Two special 3½" tweeters are acoustically separated from the woofer and reproduce highs with sparkling clarity. Cabinet of ¾"-thick hardwood has special damping to eliminate resonance. Oiled-walnut finish. Size, 13x24x12¼". Power capacity, 20 watts. Impedance, 4 ohms. From Great Britain. Shpg. wt., 50 lbs.

70 DU 279. \$8 Monthly.....159.00

LOW-COST 630 2-WAY SPEAKER SYSTEM

Economy 2-way shelf speaker system brings you superb sound at surprisingly low cost. Features unique 10¾x6¾" aluminum-center elliptical woofer with soft polyvinyl-chloride cone suspension and a 3½" tweeter with inductive crossover network for smooth wide-range, 60-15,000 cps response. Enclosure has handsome oiled walnut finish that blends with any decor. Size, 11x20½x9¾". Power handling capacity, 15 watts. Impedance, 8 ohms. From Great Britain. Shpg. wt., 30 lbs.

70 DU 280. \$5 Monthly.....69.75
70 DU 281. As above, but unfinished gumwood. \$5 Monthly.....64.75



KNIGHT

STEREO HEADSETS



KN
848

\$29⁹⁵
\$5 monthly

New!

FLUID-FILLED
EARCUSHIONS



Patented-Design Earcup
"Seal Out" Exterior Noise



KN
845

\$19⁹⁵
\$5 monthly

Enjoy Perfect Stereo with Full-Privacy Hi-Fi Headphones

KN-848 DELUXE STEREO HEADSET

- Beautiful Response of 20 to 20,000 cps
- Liquid-Filled Ear Cushions are Comfortable and Nearly Eliminate External Noise—Ambient-Noise Attenuation is 40 db at 1000 cps!

If you haven't tried private stereo headset listening, then you have a remarkable new experience waiting for you—unexcelled channel separation for musical realism that you can enjoy in complete privacy... free of external noises and without disturbing others! Professional-quality KN-848's feature unique-design "true to life" reproducers housed in earcups with an intricate shape cavity cup-divider containing special high-frequency damping material, and surrounded by liquid earseals for minimal pressure and luxurious comfort. Listen for hours without fatigue! Cushioned earcups and headband are removable for cleaning. Lightweight, high-impact plastic phones are smartly styled in two-toned charcoal black with blue-gray trim. With 8' cord, phone plug. 8 ohms. Wt., 2 lbs.

95 DX 305-D \$5 Monthly..... 29.95

KN-845 STEREO HI-FI HEADSET

- 3½" Cone-Type Dynamic Transducers Give Wide-Range Frequency Response of 25-16,000 cps
- Built for Your Comfort to the "Nth Degree"
- Easy to Connect to Any Amplifier or Tape Recorder

The KN-845 headset brings you fabulous stereo realism that simply can't be duplicated by regular speaker systems. Since each earcup is actually a precision, 3½" dynamic transducer in an acoustic chamber, you enjoy the absolute maximum in channel separation, perfect balance, greatly reduced external noise... and a crisp 25-16,000 cps response! You are surrounded by "living sound" that puts you in "front row center." Lightweight design and soft, sponge-padded earcups and headband permit long periods of comfortable listening. Adjusts to fit anyone. Earcushions are removable for cleaning. Beautiful medium-blue leatherette covering on earpieces and headband. With 8' cord, phone plug, jack on "L" bracket for hook-up to any amplifier. Impedance, 4-16 ohms. Shpg. wt., 2½ lbs.

95 DX 825-D \$5 Monthly..... 19.95

KN-846 REMOTE CONTROL FOR HEADSETS

For the Height of Convenience... Control Listening Volume Right at Your Chairside!

Separate controls for adjusting listening volume from 1 or 2 Knight stereo headsets. Switch turns music system's speakers on or off for headset-listening with or without speakers. Less cables. 2¾x2x4". Shpg. wt., 1½ lbs.

95 DX 826-D..... 7.95

48 W 021. 5-Conductor Cable. For above. .25-FT. ROLL 1.14

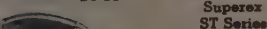


Knight Components Are Products of Allied

Stereo Headphones—for Outstanding Listening



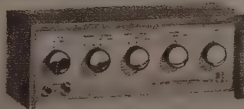
Telex
ST-10



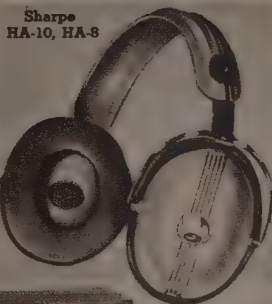
Superox
ST Series



Jensen
HS-1



Jensen
CC-1



Sharpe
HA-10, HA-8



Koss

SP-3X

W TELEX ST-10 HEADSET

Twin "T" headphones provide exceptional perspective for exciting stereo realizations only 12 oz.—can be used in for extended periods. Foam rubber cups keep music in, noise out. Dynamic element has self-supporting voice response: 16-15,000 cps. Imp.: 3-16 ohms. Shpg. wt., 1 lb.
\$6. \$5 Monthly. 24.40

JENSEN HS-1 HEADSET

By one of the leading hi-fi speaker designers, this fine headset is designed to enhance your stereo listening. High-impedance, curvilinear drivers have moisture-resistant diaphragm. Acoustic rear for uniform bass. With 8-ft. cord, std. plug, jack and 4 leads for connecting amplifier. Response: 20-15,000 cps. Imp.: 8 ohms. 1 1/4 lbs.
\$8. \$5 Monthly. 24.95

JENSEN "SPACE PERSPECTIVE"

CC-1. Experience the sensation of "space" stereo. "Space Perspective" lets each ear hear part of opposite channel's output for true "surround sound." Controls for: on-off; left or right channel channel reverse; mono, or stereo "Perspective" or normal; balance; Has jacks for two headsets. For any headsets. Walnut finish. 4 1/4 x 11 3/4 x 3". Wt., 3 1/2 lbs.
\$7. \$5 Monthly. 39.75

JENSEN CFN-1. Similar to Model CC-1, but

with controls, and with "Space Perspective". Accommodates one 8-ohm headset. 6 1/2 x 4 x 5 3/16". Wt., 1 1/4 lbs.
\$6. \$5 Monthly. 19.50

NEW—EXCLUSIVE ALLIED HEADSET

ate performance at a truly moderate price. Built to meet rigid specifications. Engineered with high-quality electronic elements to afford extremely wide response with minimal distortion. Lightweight construction and foam cushions for maximum wearer comfort—can be used for extended periods—ambient noise is greatly reduced. Headband adjusts to fit. Perfect fit. Gray color. Frequency Response: 22-18,500 cps. Impedance. Shpg. wt., 1 lb.
\$4. 15.95



QUALITY SUPEREX HEADSETS

ST-M. Two-way design for wider-range—woofer and tweeter in each phone. Individual tweeter-level controls. Monophonic adapter. Frequency Response: 20-20,000 cps. Low impedance. Wt., 2 lbs.
59 DX 063. \$5 Monthly. 29.35

ST-MH. As above, but high impedance.
59 DX 058. \$5 Monthly. 34.25

ST-S. Like ST-M, but single-element dynamic reproducers. Response: 30-15,000 cps. Low impedance. Shpg. wt., 2 lbs.
59 DX 059. \$5 Monthly. 24.45

ST-SU. Similar to ST-S above, but with matching transformers and switch for low or high impedance. Shpg. wt., 2 lbs.
59 DX 060. \$5 Monthly. 29.35

SC-2 CONTROL BOX. For two sets of stereo headphones. Has channel balance control, volume control, on-off switch, screw terminals for speakers, 2 phone jacks. For low-impedance phones. Wt., 1/2 lb.
71 D 041. 6.81

NEW SHARPE HEADSETS

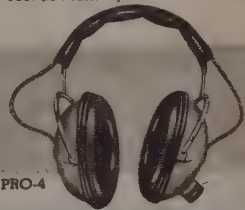
HA-10. Deluxe listening—exceptionally broad, flat response. Liquid-filled circumaural ear cushions afford outstanding wearer comfort and external-noise cancellation (40 db at 1000 cps). Shatter-proof. Cables have strain relief. Response: 20-20,000 cps. Imp.: 10 ohms. 1 1/2 lbs.
71 D 017. \$5 Monthly. 43.50

HA-8. Similar to above, but foam-filled cushions. Excellent noise-cancellation. 20-15,000 cps. 1 1/2 lbs.
71 D 042. \$5 Monthly. 24.50

NEW SP-3X HEADSET

Improved version of the popular SP-3. Enjoy thrilling high-fidelity stereo, even at high volume, without disturbing others. Extended-range response gives full, rich bass and cleaner highs. Super-tough injection-molded Implex plastic headband and case resist cracking and scratching. Have smart, trim appearance. 3 1/2" dynamic elements; soft foam ear cushions. 8-ft. cord and phone plug. Response: 20-16,000 cps. Impedance: 4 to 16 ohms. Shpg. wt., 2 lbs.
71 D 018. \$5 Monthly. 24.45

SP-5SM HEADSET. Similar to above, but with stereo-mono switch. Cord and plug. Response: 20-15,000 cps. Impedance: 4 to 8 ohms. Wt., 2 1/2 lbs.
71 D 030. \$5 Monthly. 24.45



PRO-4

PROFESSIONAL HEADSETS

MODEL PRO-4. Truly a delight for the discriminating audiophile. Adjustable headband and fluid-filled cushions form seals that block out ambient noise. Shatterproof, shockproof. 8-ft. cord. Response: 30-20,000 cps. Impedance: 16 ohms. Wt., 2 lbs.
71 D 020. \$5 Monthly. 44.10
71 D 043. PRO-600. 600-ohm imp. 49.00

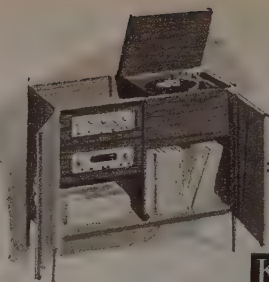
71 D 031. T-5 Headset Control. For connecting stereophones to amplifier. Volume control for each ear; speaker on-off switch. Jacks for 2 headsets. 4-16 ohms. 5 7/8 x 3 3/8 x 2 7/8". 1 lb. 8.95

71 D 032. T-1 Hookup Box. Matching transformers for stereophones. 600/10,000 ohms. 6 1/4 x 3 3/4 x 2". 8 oz. 7.79



HI-FI FURNITURE

*Knight Cabinetry . . . Superbly
Crafted and Acoustically
Engineered to Give You Exciting
Prestige Furniture and
Extraordinary Audio Quality*



KN
1403



KN
12



Deluxe Contemporary Group

MAGNIFICENT ACHIEVEMENT IN MODERN DESIGN



CABINET INNER DIMENSIONS

A	B
C	D

A: $17\frac{1}{4} \times 13\frac{7}{8} \times 15\frac{1}{2}$ " D.
B: $17\frac{1}{4} \times 15\frac{1}{2} \times 6\frac{1}{4}$ " H.
C: $17\frac{1}{4} \times 15\frac{1}{2} \times 8\frac{1}{4}$ " H.
D: $17\frac{1}{4} \times 13\frac{7}{8} \times 15\frac{1}{2}$ " D.

INDIVIDUAL UNITS

KN-1403 EQUIPMENT CABINET. Genuine, hand-rubbed oiled walnut veneer. Overall size, $31\frac{1}{2} \times 36\frac{1}{2} \times 19$ ". Shpg. wt., 88 lbs. Shipped Express.

95 DZ 433D. \$5 Monthly. 89.95

KN-1267A ENCLOSURE. Accepts 12" or 15" speakers. Adapter board accommodates tweeter; removes for bass-reflex design. Terminal strips. Hand-rubbed oiled walnut veneer. $31\frac{1}{2} \times 19\frac{1}{2} \times 19$ ". 53 lbs. Shipped Express.

95 DZ 434D. \$5 Monthly. 54.95

Save \$8.00 on Stereo pair.

2 or more EACH 52.45

COMPLETE 3-PIECE DELUXE GROUP

\$189⁹⁵

\$10 Monthly

- Provides Luxurious Housing for All Hi-Fi Components, Plus Records or Accessories
- Enclosures Usable as Infinite Baffle or Bass Reflex—Take 15" or 12" Speakers

Elegance, achieved through classically simple styling and beautiful woodwork, distinguishes this group. All three pieces are expertly crafted, and finished to exact matching colors of hand-rubbed oiled walnut veneer. Dual-design enclosures may be used as infinite baffle or bass-reflex types—bring out the best from your speakers.

KN-1403 equipment cabinet has precision-fitting doors—open and close with pleasing ease. Spacious compartments (see diagram at right for exact dimensions) are arranged for comfortable usage. The plenty of room to house your tuner, amplifier, changer or turntable, and ample room left for storing recordings, too. Changer compartment has lift-top for easy loading of recordings. Rear-panel ventilation keeps components adequately cool.

KN-1267A speaker enclosures accommodate any 12" or 15" speakers, including coaxial and 3-way types; take 2-way speaker system components on adapter board (removes for bass-reflex operation). Has removable grille cloth, mitered front moldings, and acoustic insulation. Overall group size, $31\frac{1}{2}$ " high, $75\frac{1}{2}$ " wide and 19" deep. Walnut only. Shpg. wt., 188 lbs. Shipped Express.

23 DZ 512-3D. \$10 Monthly 189.95



KNIGHT

HI-FI FURNITURE



Elegantly Styled Danish-Modern Hi-Fi Furniture Group

**RICHNESS IN TASTEFUL RESTRAINT
FOR YEARS OF FASHIONABLE USE**

COMPLETE 3-PIECE DANISH GROUP

- 24⁹⁵** • Units Are Same Hand-Rubbed Oiled Walnut Veneer for "Togetherness"
Monthly • Interior Is Finished in Rich Walnut
 • Enclosures Accept 15" or 12" Speakers

Less beauty in style . . . functional design for comfort and acoustic excellence—all yours for lasting enjoyment with this distinctive group. Each piece is the product of fine craftsmanship, creating a living group that can be used together, or separated for decorative or extra stereo separation.

1503 equipment cabinet reveals a rich walnut interior when its doors are open—a pleasing sight to the appreciative eye. Tuner-amplifier section includes a special panel for custom mounting, if desired. Record changer compartment is kind to your back—no bending. Extra storage space for records and accessories (see diagram at right for exact dimensions of compartments). Rear-ventilation provides proper temperature levels for components.

1275A speaker enclosures accept any 12" or 15" speaker. 21½x12" adapter board (removes for bass-reflex design) for 2 or 3-way system components. With acoustic insulation, and terminal strips on back for hook-up of speakers. Overall ensemble size, 33" high, 78" wide, 11¼" deep. In hand-rubbed oiled walnut veneer. Shpg. wt., 205 lbs. Shipped Express.

1503-3D. \$12 Monthly. 224.95

More for Your Money—Buy Knight Products



CABINET INNER DIMENSIONS

A	B
C	D

A: 17¼x17x13¾"H
 B: 17x17¼x6¼"H
 C: 17¼x10½x17"H
 D: 17x17¼x14¾"H

INDIVIDUAL UNITS

KN-1503 EQUIPMENT CABINET. Houses components. Finished in genuine, hand-rubbed oiled walnut. Overall size, 36x33x20¼"D. Shpg. wt., 85 lbs. Shipped Express. **95 DZ 435D. \$5 Monthly. 99.95**

KN-1275A ENCLOSURE. For any 12" or 15" speaker. Adapter board takes 2 or 3-way system components. Handy terminal strips. Size, 33x21x20¼". Shpg. wt., 60 lbs. Shipped Express.

95 DZ 436-D. \$5 Monthly 69.95

Save \$7.00. 2 or More. Each 66.45



KNIGHT

HI-FI FURNITURE

Popular-Priced Furniture
Expertly Designed and Crafted
to Offer You More in Sound,
Storage Space, and Styling



KN
1900A

K
1901A

Low-Cost Contemporary Group

FOR TODAY'S DISTINCTIVE MODERN LOOK



CABINET INNER DIMENSIONS

A	B
C	D

A, C: $21\frac{1}{2} \times 16\frac{3}{4} \times 15\frac{1}{4}$ "

B: $16\frac{3}{8}$ " W.; $14\frac{1}{8}$ " D.

D: $12\frac{3}{4} \times 16\frac{3}{4} \times 15\frac{1}{4}$ " D.

INDIVIDUAL UNITS

KN-1900A EQUIPMENT CABINET.

Tuner-amplifier compartment has two adjustable shelves. Lift-top changer section. $28\frac{1}{2} \times 36\frac{1}{4} \times 16\frac{1}{4}$ " deep. Oiled walnut. Wt., 65 lbs. Shipped Express.

95 DZ 504 D. \$5 Monthly.. 79.95

KN-1901A ENCLOSURE.

Ducted-port bass-reflex. Takes 12" or 8" speakers. $28\frac{1}{2} \times 18\frac{1}{4} \times 16\frac{1}{4}$ ". Oiled walnut. 35 lbs. Shipped Express.

95 DZ 505D. \$5 Monthly.. 39.95

Save \$4.00 Per Pair! 2-Up. EA. 37.95

SAVE ON COMPLETE 3-PIECE ENSEMBLE

\$149⁹⁵

\$8 monthly

- Houses Amplifier, Tuner, Changer, Record or Accessories, Plus 12" or 8" Speakers
- Harmonious Oiled Walnut Finish on All Pieces—Matching Grille Cloth

Enduring simplicity of style and functional design are nicely blended in this low-cost ensemble—enhances nearly any contemporary decor. All three pieces are similarly styled, and are exactly $16\frac{1}{4}$ " deep for attractive grouping, or balanced separation of speaker enclosures for increased channel separation. Feature fine-crafted oiled walnut veneers and square, tapered legs.

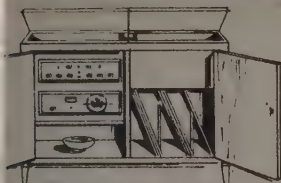
KN-1900A equipment cabinet features handy "lift-top" record changer compartment that minimizes stooping and bending when loading or unloading records. Tuner-amplifier compartment (sections A and C in diagram at left) has two adjustable shelves to accommodate most sizes of components. Shelf is removable for extra storage space. Rear-panel ventilation ensures proper temperature levels.

KN-1901A speaker enclosures incorporate ducted-port bass-reflex acoustical design to extract exceptional bass performance from speakers (accepts 8" or 12"). Screw-type terminal strips on back board make hook-up easy. In oiled walnut. Overall ensemble size: $28\frac{1}{2} \times 36\frac{1}{4} \times 16\frac{1}{4}$ " deep. Shpg. wt., 135 lbs. Shipped Express.

23 DZ 511-3. \$8 Monthly..... 149.

Ovation Component Cabinetry

BER-JOHNSON



Elegantly Designed Cabinets
In Genuine Hardwood Veneers

OUT OVATION CABINETRY

new standards of elegance and functional design: $\frac{3}{4}$ " construction; hand-rubbed veneers; adjustable shelving; lift-top access to phono and tape compartments; bass reflex speaker enclosures; adjustable ports. Interior dimensions of all cabinets are identical. Upper left section accepts an amplifier (front panel access) and top tape deck; $14\frac{3}{4} \times 17\frac{3}{4} \times 14"$ (HWD) plus 2" clearance in front and 3" on top. Upper right is adjustable-height mounting board for turntable; record changer; $9\frac{1}{2} \times 17\frac{3}{4} \times 14\frac{3}{4}"$ (HWD). At lower right is $13 \times 17\frac{3}{4} \times 16\frac{1}{4}"$ (HWD); accommodates 100 records. Storage section at lower left is $13 \times 16\frac{1}{4} \times 16\frac{1}{4}"$ (HWD).



DANISH MODERN STYLING

3-PIECE ENSEMBLE. Styled for today's living and listening. Consists of equipment cabinet and two matching speaker enclosures, in eye-appealing oiled walnut. Outer dimensions of cabinet: $30\frac{1}{4} \times 40 \times 18\frac{1}{2}"$; outer dimensions of speaker enclosure: $30\frac{1}{4} \times 20\frac{1}{4} \times 18\frac{1}{2}"$. Cut for 15" speakers and tweeter, with 12" speaker adapter; tunable ports. Matched finishes are guaranteed only

when purchased as 3-pc. ensemble. Shpg. wt. 183 lbs. **\$13 Monthly.** Shipped express or truck from Stevens Point, Wis. No C.O.D.

D70 DZ 503-3. Save **\$14.00. 255.85**

GJ-731. Equipment cabinet only. 99 lbs.

D70 DZ 504. No C.O.D. **\$7 Mo. . . 139.95**

GJ-732. Speaker enclosure only. 45 lbs.

D70 DZ 505. No C.O.D. **\$5 Mo. . . 64.95**

AUTHENTIC EARLY AMERICAN

3-PIECE ENSEMBLE. Imparts warmth to surroundings. Consists of cabinet and two end enclosures in harvest maple. Outer dimensions: cabinet, $30\frac{1}{4} \times 40 \times 18\frac{1}{2}"$; each enclosure, $28\frac{1}{4} \times 21\frac{3}{4} \times 18\frac{1}{2}"$. Interior dimensions of enclosures are identical to Danish (above). Matching finishes guaranteed only when purchased as 3-pc. ensemble. Shpg. wt. 197 lbs. **\$14 Monthly.** Via express or truck from Stevens Point, Wis. No C.O.D.

D70 DZ 500-3. Save **\$14.85. 275.00**

EQUIPMENT CABINET ONLY. 105 lbs.

D70 DZ 501. No C.O.D. **\$8 Monthly. . . 149.95**

SPEAKER ENCLOSURE ONLY. 49 lbs.

D70 DZ 502. No C.O.D. **\$5 Monthly. . . 69.95**

GENUINE FRENCH PROVINCIAL

3-PIECE ENSEMBLE. Bring Gallic charm to your decor with equipment finished in authentic French Provincial Cherry. Outer dimensions: cabinet, $30\frac{1}{4} \times 40 \times 18\frac{1}{2}"$; each enclosure, $30\frac{1}{4} \times 21\frac{1}{2} \times 19"$. Interiors are identical to Danish Modern (above). Matching finishes guaranteed only when purchased as ensemble. Shpg. wt. 192 lbs. **\$14 Monthly.** Via express or truck from Stevens Point, Wis. No C.O.D.

D70 DZ 508-3. Save **\$16.50. 312.35**

EQUIPMENT CABINET ONLY. Wt., 108 lbs.

D70 DZ 509. No C.O.D. **\$9 Monthly. . . 169.95**

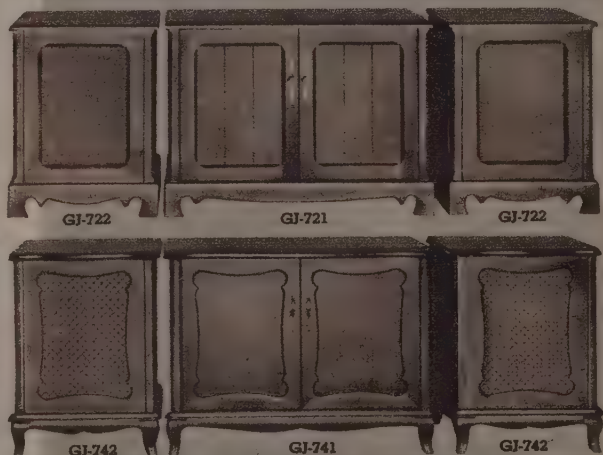
SPEAKER ENCLOSURE ONLY. Wt., 46 lbs.

D70 DZ 510. No C.O.D. **\$5 Monthly. . . 79.95**

DANISH CONTEMPORARY DESIGN

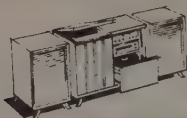
ALL-IN-ONE CONSOLE. A praise-evoking piece of furniture, styled to give you the ultimate in living room plus the best stereo sound distribution that a cabinet can offer. Features hand-rubbed oiled walnut front and lift-top access to amplifier/tuner/tape deck and phono compartments, plus bass reflex speaker enclosures. Overall size: $32\frac{1}{2} \times 73\frac{3}{4} \times 19"$. Back-cut for 15" speakers, with 12" speaker adapter provision for separate tweeter. Enclosures accommodate 100 records. Shpg. wt. 173 lbs. Via express or truck from Stevens Point, Wis. No C.O.D.

D70 DZ 506. **\$14 Monthly. . . 279.95**



New Danish Contemporary Console





House your components in these carefully crafted, elegantly styled equipment cabinets and enclosures. All are constructed of solid $\frac{3}{4}$ " wood panels with genuine veneer overlay. Each is hand rubbed to a beautiful finish. NOTE: Allied guarantees cabinets and enclosures to have perfectly matched finishes only when an entire ensemble is ordered at the same time.



Contemporary Ensemble

Ensemble
\$290⁷⁰
Save \$16.00

CONTEMPORARY ENSEMBLE

Styling that accents spaciousness. Includes 500-B Equipment Cabinet and two 501-B Speaker Enclosures. Cabinet has a lift-top upper compartment, $16\frac{1}{2} \times 19\frac{1}{2} \times 6$ ", and upper section, $13\frac{3}{4}$ " high, $18\frac{3}{4}$ " wide with adjustable shelf for tuner and amplifier. Pull-out drawer holds changer, turntable or recorder. Holds 100 records. Sliding doors. Cabinet, $32\frac{1}{2} \times 40 \times 19$ ". Each enclosure, $32\frac{1}{2} \times 20 \times 19\frac{1}{2}$ ", takes 12 or 15" speaker. Specify mahogany, blonde or oiled walnut 235 lbs. \$15 Monthly. Shipped express or truck from Rockford, Ill.

D70 DZ 579-3C. No C.O.D. 290.

D70 DZ 580C. Equipment Cabinet Alone. Shpg. wt., 185 lbs. Specify Finish. No C.O.D. \$8 Monthly. 156.

D70 DZ 581C. Speaker Enclosure Alone. Shpg. wt., 115 lbs. Specify Finish. No C.O.D. \$5 Mo. EACH 75.

ITALIAN PROVINCIAL ENSEMBLE

Authentic Italian Provincial styling to delight the discriminating eye. Includes the 600 Equipment Cabinet and two 601 Speaker Enclosures. Equipment cabinet has top-loading phono compartment, 6" high, $17\frac{1}{4}$ " wide and $14\frac{1}{2}$ " deep. Upper left has adjustable shelf for tuner and amplifier, $17\frac{1}{2}$ " wide and $14\frac{1}{2}$ " high. Holds 100 records. Hinged doors have convenient magnetic latches. Cabinet size, $27\frac{1}{4} \times 38 \times 17$ ". Each bass-reflex enclosure, $27\frac{1}{4} \times 17 \times 17$ ", takes speakers up to 12". Specify fruitwood or oiled walnut. 187 lbs. \$12 Monthly. Shipped express or truck from Rockford, Ill.

D70 DZ 688-3C. Save \$12.10. No C.O.D. 230.

D70 DZ 689C. Equipment Cabinet Alone. Shpg. wt., 185 lbs. Specify Finish. No C.O.D. \$7 Monthly. 122.

D70 DZ 690C. Speaker Enclosure Alone. Shpg. wt., 115 lbs. Specify Finish. No C.O.D. \$5 Monthly. EACH 60.



Provincial Ensemble

DANISH MODERN ENSEMBLE

For those who enjoy modern Scandinavian style in their furnishings. Consists of the 700 Equipment Cabinet and two 701 Speaker Enclosures. Cabinet features top-loading phono compartment, 6" high, $17\frac{1}{4}$ " wide and $14\frac{1}{2}$ " deep. Upper left has blank panel, $17\frac{1}{2}$ " wide and $14\frac{1}{2}$ " high, for custom or shelf-mounting tuner and amplifier. Has space for over 100 records. Hinged doors have convenient magnetic latches. Overall size of cabinet, $28\frac{1}{4} \times 38\frac{1}{4} \times 17\frac{3}{4}$ ". Each enclosure, $28\frac{1}{4} \times 17\frac{3}{4} \times 17$ ", takes speakers up to 12". In oiled walnut finish. Shpg. wt., 169 lbs. \$12 Monthly. Shipped express or truck from Rockford, Ill.

D70 DZ 010-3. Save \$13.15. No C.O.D. 249.

D70 DZ 000. Equipment Cabinet Alone. Shpg. wt., 83 lbs. No C.O.D. Orders \$7 Monthly. 129.

D70 DZ 001. Speaker Enclosure Alone. Shpg. wt., 43 lbs. No C.O.D. Orders \$5 Monthly. EACH 67.



Danish Modern Ensemble

NEW EARLY AMERICAN CONSOLE

Authentic Early American Styling adds an air of graceful living to this beautiful home music center. Combines spaciousness with superb acoustical design for true high fidelity sound. Hinged double doors swing out to reveal space for custom or shelf-mounting tuner and amplifier. Also has double-lift tops on end compartments for holding turntable and tape recorder. Doors have magnetic latches for convenience. Speaker enclosures at each end are especially designed to eliminate all cabinet resonances. Each takes a 12" speaker. Also has adequate storage space for 100 records. Electronics compartment is $13\frac{1}{2} \times 18\frac{3}{4} \times 17$ ". Overall cabinet size is $13\frac{1}{2} \times 18\frac{3}{4} \times 17$ ". Handsomely finished in rich maple with matching grain cloth on speaker enclosures. Wt., 153 lbs. Shipped express or truck from Rockford, Ill.

D70 DZ 003. No C.O.D. \$12 Monthly. 242.5



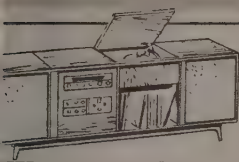
Early American Console

Elegant Component Cabinetry by

BARZILAY



Contemporary California-inspired decorator styling and the functional use of choice American Black Walnut woods highlight this elegant furniture grouping. Created for those who have a high concept of beauty and appreciate honest design, these ensembles achieve a truly rich and elegant appearance. Here is deluxe cabinetry designed to accommodate and enhance the most deluxe high-fidelity home music system.



Model 950-E Stereo Ensemble Shown in Open View

MODEL 950E STEREO ENSEMBLE

Offers refreshing style, acoustic excellence, roomy housing. Combines equipment cabinet and two speaker enclosures on a sculptured walnut base. Cabinet features paneled disappearing tambour doors, two shelves, blank panel for custom installation. Has 20x15" top-loading turntable compartment, 20x13" record storage space. Enclosures accept 12" or 15" speakers. Ensemble, 32x96x18" overall. In hand-rubbed oiled walnut. 260 lbs. Express or truck from Gardena, Calif. D70 DZ 132-4 No C.O.D. Orders \$18 Monthly..... 384.00

New From Barzilay—Beautiful Stereo Furniture Kits

Barzilay, creator of quality stereo furniture, now places its renowned design and craftsmanship into money-saving cabinetry kits. They are planned for the person who has the best, but enjoys the fun and pride of doing it himself. One screwdriver does the job—all major portions selected to the shaped, pre-assembled solid walnut frame precision-fit, predrilled connectors. And like all fine Barzilay furniture, they utilize only the finest of materials—American Black Walnut is employed both inside and out. Barzilay Stereo Ensemble Kits are supplied with step-by-step instructions, and a complete set of materials to produce a professional oiled walnut finish.

"DESIGN ONE" ENSEMBLE KIT

Deluxe three-piece contemporary stereo ensemble in money-saving kit form. May be placed side-by-side or separately. The equipment cabinet is a marvel of efficient use of space. Full-length lift-top reveals electronics, turntable and deck. Provision for alternate front-mounting of tuner amplifier. Bottom section behind three sliding doors hides almost five feet of record and tape storage. With two racks. Top center section, 18 1/4" wide, 15 1/2" deep. Left and right sections, 17 7/8" wide, 15 1/2" deep. Front center and right sections, 17 7/8" wide, 13" high. Front center section, 18 1/4" wide, 23" high. Overall, 28 3/4"x57x18 1/2". Hard reflex speaker enclosures have distinctive hand-rubbed grillework. Accept 12" or 15" speakers. Each enclosure, 28 3/4"x19"x18 1/2". Tops for cabinet and enclosures cut from one piece of walnut—assure continuous match-grain. Ensemble, 28 3/4"x95x18 1/2". 250 lbs. Shipped express or truck from Gardena, Calif.

DZ 026-3. No C.O.D. Orders \$13 Monthly. 249.50

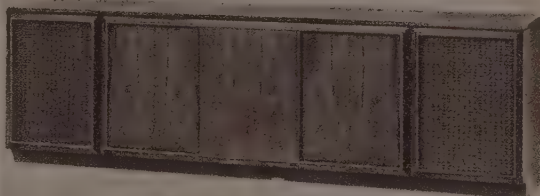
DZ 025-3. 100E. Above, assembled and finished. 349.50

"DESIGN TWO" CONSOLE KIT

Outstanding contemporary one-piece console. Styled to enhance the finest stereo systems. Hinged lift-top provides convenient access to turntable and components. Provision is made for alternate front-mounting of tuner and amplifier on panel. Sliding door opens to reveal space for up to 275 records. Enclosures accept 12" or 15" speakers, have hand-rubbed grillework. May be used with pre-packaged stereo systems without introducing acoustical feedback. Turntable and component sections, 18 1/4" wide and 15" high. Left front center section, 18 1/4" wide and 23" high. All size, 28x81x18 1/2". Shpg. wt., 146 lbs. Shipped express or truck from Gardena, Calif.

DZ 024. No C.O.D. \$10 Monthly..... 184.50

DZ 029. C150. Above, assembled, finished..... 279.50

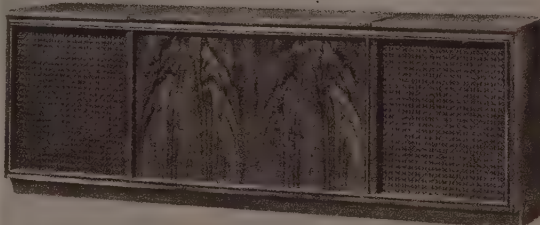
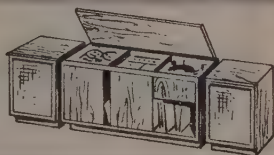


Design-One Ensemble Kit

\$249.50

\$13 monthly

Shown in Open View

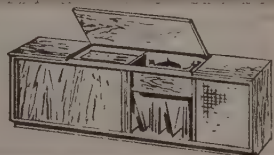


Design-Two Ensemble Kit

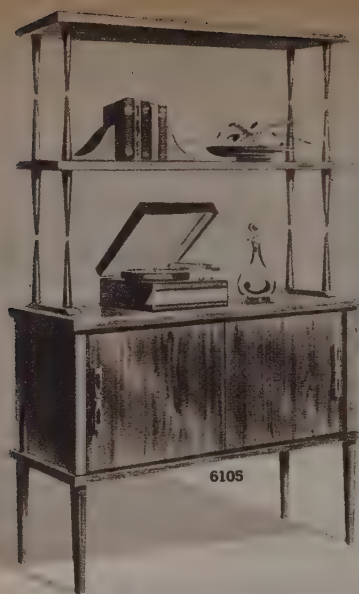
\$184.50

\$10 monthly

Shown in Open View



Selected Hi-Fi Furniture Value



6105

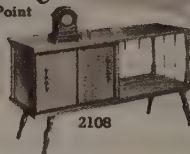


2105



6108

Versatile,
All-Purpose
Room Divider
And Cabinet



2108

Handsome Style
In Mahogany or
Walnut Finish

MODEL 6105 ALL-PURPOSE CABINET

Styled with the functional simplicity of contemporary American decor, offers unusually attractive appearance and exceptional versatility at modest cost. Useful as a TV and stereo cabinet, record cabinet, curio cabinet, bookcase, snack bar, etc. Stands almost 5' tall. Constructed of durable hardwood, in your choice of walnut or mahogany finish on all sides. 14x30x15" storage compartment, with sliding doors, holds up to 300 records. Overall size, 56x30x15". With matching brass hardware and legs. Shipped knocked down. Shpg. wt., 40 lbs. Shipped express. \$5 Monthly. 70 DZ 030C. Specify Finish. 27.95

MODEL 6108. Above, but Authentic Early American with Maple finish and antique brass hdwe. Shpd. knocked down. 40 lbs. Exp. 70 DZ 031. \$5 Monthly. 27.95

MODEL 2105 40" RECORD CABINET

An inexpensive, multi-purpose showcase for your hi-fi components and phonograph records. Features the sleek, graceful lines of temporary "low-boy" design and a full 40" length. Stores over 200 records in its huge compartment. In addition, its durable hardwood construction suits it for holding hi-fi components, TV set, etc. Handsomely finished in choice of walnut or mahogany finish. With and period-matched hardware on sliding doors. Storage compartment, 14x20x15"; overall size, 26x40x17". Shipped knocked down. Shpg. wt., 34 lbs. Shipped express. \$5 Monthly. 70 DZ 032C. Specify Finish. 19

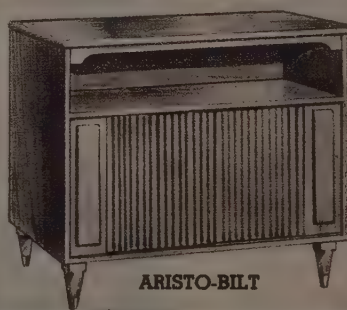
MODEL 2108. Above, but Authentic Early American with Maple finish and antique brass hdwe. Shpd. knocked down. 34 lbs. Exp. 70 DZ 033. 19



Holds Phonograph
And Over 100 Records

SPECO 221 RECORD RACK

Having trouble moving your phonograph and your favorite records from place to place around your home? This lightweight, mobile combination phonograph stand and record rack lets you do it in one convenient operation. Features a pleasingly styled, weave-pattern hardboard top with bright brass-plated record rack and legs. Its modern, casual design makes it a perfect addition to any patio or recreation room. Sturdy 14x21" shelf; spacious record rack accommodates well over 100 phonograph records. Overall size, 21x21x14". With easy-roll casters. Shpg. wt., 15 lbs. 70 DX 034. 9.95



ARISTO-BILT

MODEL 1212 RECORD CABINET

Beautifully constructed of Ponderosa pine to provide an adequate and attractive housing for your TV or hi-fi components and records. Styled to blend well with any decor—traditional or contemporary. Its spacious lower compartment, with sliding louvered doors, stores up to 200 records. Handsomely finished in walnut. Dimensions: upper compartment, 8½x32½x15"; lower compartment, 14x32½x15"; overall size, 30x34x16". With 6" legs. Shpg. wt., 34 lbs. Shipped express. 70 DZ 035. \$5 Monthly. 31.95 70 DZ 036. Same model cabinet as above, but unfinished. Express. 22.95



UNIVERSAL

MODEL 90 RECORD CABINET

A skillfully crafted, smartly designed purpose cabinet that blends naturally with any modern or contemporary decor scheme. Sturdily constructed to support portable or table model TV set or phonograph. Roomy storage compartment, sliding door access, accommodates up to 200 LP records. Finished in walnut or mahogany—specify choice. With stylish tapered legs, gleaming brass hardware ferrules. Record compartment size, 14x21x16"; overall size, 20x13x15". Shipped knocked down, ready for easy assembly in just a few minutes. 21 lbs. 70 DX 037C. Specify Finish. 11

LAR Grille Cloths

art, Color-Fast Patterns
imum Order, 1 Yard

"PANDANUS." Imported straw. 27" de. (Minimum order, 1 yd.) Shpg. er yd., 15 oz.
093..... PER YARD 1.60
094. To 10½ yds., PER YD..... 1.60
"CANE". Natural on brown fabric. 36" ide. (Minimum order, 1 yd.) Shpg. wt., d., 15 oz.
095..... PER YARD 2.40
096. Over 1 yd., PER YARD..... 2.40

"CANE & LUREX". Brown and tan, gold metallic thread. 36" wide. (Min. order, 1 shpg. wt., per yd., 15 oz.)
097..... PER YARD 2.95
098. Over 1 yd., PER YARD..... 2.95
"CANE". 2-tone beige on brown. 36" width. (Min. order, 1 yd.) Per yd., 15 oz.
099..... PER YARD 2.50
100. Over 1 yd., PER YARD..... 2.50

"LUREX". Brown and tan shades, with old and bronze "Lurex" metallic d. 36" wide. (Min. order, 1 yd.) Wt. d., 15 oz.
101..... PER YARD 4.00
102. Over 1 yd., PER YARD..... 4.00

ACOUSTONE Grille Cloths

APPROVED BY U.S. TESTING COMPANY

A wide selection of popular Acoustone speaker grille cloth in highly attractive, color-fast patterns. Match virtually all types of decorative motifs. Made of highly durable Saran plastic in an open weave to permit unrestricted passage of all sound frequencies. Special construction plus professional weaving techniques—never sag or shrink. Shpg. wt., per yard, 15 oz.

BUDGET-PRICED GRILLE CLOTH

Description	Pattern No.	Fig.	Stock No.		PER YD.
			In Lengths Over 1 Yd.	36x36"	
Mahogany with Ivory Threads	211	F	82 RX 103	82 RX 104	2.39
Champagne and Off-White	812	G	82 RX 270	82 RX 271	
Walnut, White and Gold	1908	H	82 RX 272	82 RX 273	
Saran	8105	J	82 RX 274	82 RX 275	
Walnut with Bronze Threads	811	K	82 RX 115	82 RX 116	
Gold and Bronze	213	L	82 RX 117	82 RX 119	

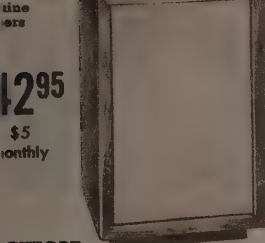
MODERATELY-PRICED GRILLE CLOTH

White with Metallic Gold and Black	616M	M	82 RX 276	82 RX 277	3.29
Beige with Metallic Gold	711M	N	82 RX 122	82 RX 123	
Natural Cane	1809	P	82 RX 124	82 RX 127	
Walnut and Waffle Cane	2475	R	82 RX 128	82 RX 130	
Mahogany, Beige with Metallic Gold	32-57R-2F	S	82 RX 131	82 RX 132	
Blonde, Beige with Metallic Gold	831	T	82 RX 133	82 RX 134	
Bamboo	813	W	82 RX 278	82 RX 279	

DELUXE GRILLE CLOTH

Cane and Walnut with Gold Thread	2025A	X	82 RX 280	82 RX 281	3.95
Walnut, Beige, Metallic Diamonds	4440	Y	82 RX 282	82 RX 283	
Black with Gold Cobweb	453	Z	82 RX 148	82 RX 149	
Pearl, Black and Gold	814BM	AA	82 RX 150	82 RX 151	
Dark Mahogany with Gold Cobweb	300	BB	82 RX 152	82 RX 153	
Beige, White and Tan with Metallic	7104	CC	82 RX 154	82 RX 155	

Rubbed



CKFORD

MODEL 112 ENCLOSURE

uses 12" Speaker and Any Size Tweeter

appealing, acoustically lined enclosure any 12" loudspeaker. Also accommodates any size tweeter. Semi back-loaded monitor design combined with smart construction in a compact speaker enclosure. Beautifully finished in hand-rubbed, genuine veneers on four sides; plastic cane grille with 24x16x13½". In mahogany or oiled linut—specify choice. 35 lbs.
DZ 073C. \$5 Mo. Express..... 42.95
DZ 074C. 122 Shelf Model. Above, but ¾x24x12". Shipped express. 29 lbs. Spec. Finish..... 29.95



CUSTOM CABINET ACCESSORIES

G-C DECORATIVE METAL GRILLE

DD Brushed-brass finish. Diamond pattern. 2½x¾". 4 lbs.
82 RX 090. 12x18"..... 1.76
82 RX 091. 18x24"..... 3.23
82 RX 092. 24x36"..... 6.14

SPEAKER REDUCER RINGS

EE For mfg. small speakers in larger enclosures. ¾" plywood. With hardware. MODEL R/R 12/8. For mounting 8" speaker in 12" speaker cutout. 1 lb.
82 RX 298..... 89¢
MODEL R/R 15/12. For mounting 12" speaker in 15" speaker cutout. 1½ lbs.
82 RX 299..... 1.19

BARZILAY WALNUT FINISH

FF Liquid preparation for beautiful, soft-luster oiled walnut furniture finish. A blend of 8 oil compounds, including 40% "solids". 8-oz. Wt., 1 lb.
82 R 089..... 1.95

TAPERED BRASS LEG KITS

GG Kit includes: 4 brass finished legs, 4 dual-purpose mtg. brackets to affix legs in straight or angle position and screws.
82 R 081. 4" Kit. 2 lbs..... 2.49
82 R 082. 6" Kit. 3 lbs..... 2.79
82 R 083. 12" Kit. 4 lbs..... 3.79
82 R 084. 14" Kit. 5 lbs..... 4.19

UNFINISHED WOOD LEG KITS

GG Same as kits, above, but legs of sanded, unfinished hardwood.
82 R 085. 4" Kit. 1½ lbs..... 1.79
82 R 086. 6" Kit. 1¾ lbs..... 2.09
82 R 087. 12" Kit. 2½ lbs..... 2.49
82 R 088. 14" Kit. 2¾ lbs..... 2.79

ACOUSTIC INSULATION

HH Foam rubber. For lining speaker enclosures. ½x12x72". 1½ lbs.
82 RX 262..... 1.98
82 RX 042. Above, but fiberglass..... 1.32

Depend on Allied for All Your Hi-Fi Accessories

ALLIED 209

Audio Switches, Controls and Phono Accessories

Wide selection of helpful audio switches and controls to give you stereo or monophonic versatility. All top-quality items by famous manufacturers.

SELECTED SWITCHES AND CONTROLS

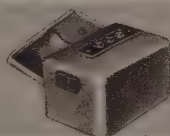


In the table below, all Vidair switches and controls have solder connections. *Indicates screw terminals. †Indicates phono jacks.

All components supplied with hardware. Fig. C rated 10 watts. H rated 5 watts. Figs. A and B have 18" cable.

Stock No.	Fig.	Manufacturer	Model No.	Mode	Wt. Oz.	Function and Type of Mounting	EA
82 R 156	A	Audiotex†	30-294	Mono	10	Two Sources into One Input. Surface mounting.	1.1
82 R 157	B	Audiotex†	30-296	Mono	10	Two Sources into One Input. Through-panel mounting.	2.2
82 R 158	C	Audiotex*	30-364	Mono	8	8-Ohm L-Pad Speaker Volume Control. Wall plate mounting.	2.2
82 R 159	C	Audiotex*	30-366	Mono	8	16-Ohm Level Control. Wall plate mounting.	2.2
82 R 160	C	Audiotex*	30-372	Stereo	8	8-Ohm Dual L-Pad Speaker Volume Control. Wall plate mounting.	5.5
82 R 161	C	Audiotex*	30-374	Stereo	8	16-Ohm Dual Level Speaker Control. Wall plate mounting.	5.5
82 R 169	C	Audiotex*	30-388	Stereo	8	Selects any combination of 3 stereo speaker systems. Wall plate.	2.2
82 R 170	D	Audiotex*	30-360	Mono	8	Selects 1-3 speakers (any combination). Surface mounting.	3.3
82 R 186	...	Switchcraft*	670	Stereo	8	Selects either or both of 2 stereo speaker systems.	3.3
82 R 192	C	Switchcraft*	665	...	10	Speaker Phase Switch. Surface mounting.	1.1
82 R 194	E	Switchcraft†	668	Stereo	10	Selects any 1 of 3 stereo sources into 1 stereo input. Surface mtg.	3.3
82 R 196	F	Vidair	MS-6	...	8	Selects any of 6 speakers. Panel mounting.	2.2
82 R 197	F	Vidair	MS-12	...	8	Selects 6 Sets of stereo speakers. Panel mounting.	2.2
82 R 201	G	Vidair	RS-10	Mono	8	Selects either or both of 2 speakers. 3-Way panel mounting.	1.1
82 R 202	H	Vidair	RF-10	Mono	8	Distributes volume between 2 speakers. Panel mounting.	1.1

AUDIOTEX REMOTE CONTROL



30-300. Remote control from any room. Has 3 switches. Turns electrical devices on or off. For 110-120 v., AC. Extra switches can be added. Less cable below. 5 lbs.

82 R 044..... 13.52

82 R 045. Extra Switch. 5 oz..... 1.32

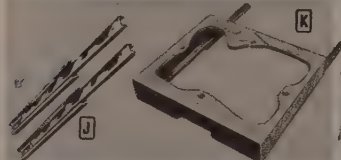
47 TT 362. 3-Conductor Cable. 100-ft. coil. Shpg. wt., 2 lbs..... PER 100 FT. 2.43

ROTRON "WHISPER QUIET" EQUIPMENT-COOLING FAN

- Extends Life of Your Electronic Equipment
- Improved Performance of Hi-Fi Components

Now you can blow excess heat problems away. Rotron's highly efficient "Whisper Fan." Circulates 60 cfm of air for effective cooling of amplifiers, tape recorders and other electronic components. Electronic equipment always lasts longer and gives improved performance when run cool—the "Whisper Fan" handles that cooling job... and quietly. Cools virtually without making a sound. Extremely compact—only 4 1/16" square and 1 1/2" deep. For operation from 110-120 volt cycle AC. Shpg. wt., 1 1/2 lbs.

82 R 031..... 14.00



J PHONO DRAWER SLIDES

15" SLIDES. Heavy steel; with ball bearings. Normal travel extension of slides is 11". Shpg. wt., 7 lbs.

82 R 046..... 1.90

82 R 047. As above, but 13"..... 1.90

82 R 048. Heavy-Duty 18" Slides. Normal extension, 16". Wt., 8 lbs..... 3.50

K READY-TO-FINISH

RECORD-CHANGER BASES

Smooth-sanded for easy finishing in any color. 3/4" and 3/8" panels with pre-drilled holes. Cutout for hand-pull is located on front of base. 3 1/2 x 16 1/4 x 14 1/2". Wt., 11 lbs.

Stock No.	Pre-Cut for Use With:	EACH
73 RX 042	Weber 1000 Series	
73 RX 048	Garrard Type "A"	7.75
73 RX 045	Garrard ATC; Autolism	
73 RX 049	Uncut with blank top	

Deluxe Record Rack

CONVENIENT RECORD STORAGE RACKS, ALBUMS AND CASES

L DELUXE RECORD RACK. Holds up to 60 LP records in jackets—offers plenty of space between retainers for ready record identification and easy pull-out. A welcome room decoration, this rack is richly brass-plated with a handsome walnut trim. Also has walnut carrying handles for convenient portability. Protective plastic feet. Size, 13x8x7". Wt., 4 lbs.

82 RX 227..... 3.98

M RECORD CADDY. Stores over 75 LP records, in covers. Designed to protect records and prevent warpage. Ruggedly constructed, and attractively plated in gleaming brass. Sturdy handles permit easy transfer of caddy from place to place. Only 17" long—just right for limited-space requirements. With ball feet to protect surfaces. 4 3/4 x 17 x 6 1/2". Wt., 5 lbs.

82 RX 049..... 1.98



N DELUXE 12" RECORD ALBUM. bound Kraft paper envelopes. Inside cover index; Fabrikoid cover. 5 lbs.

82 RX 024..... EACH 1.30

3 or More..... EACH 1.30

7" RECORD ALBUM. As above, for 7" rpm records. Less index. 12 oz.

82 R 025..... EACH 1.30

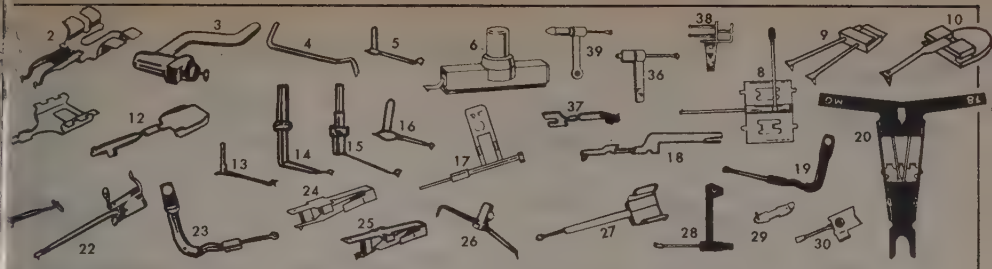
3 or More..... EACH 1.30

P METAL STORAGE CASE. Holds 3 12" records, and has number index separators. In red and white. 13 3/4 x 13 3/4 x 4 Plastic handle. 8 lbs.

82 RX 026..... 4.00

82 RX 225. 12" Fiberboard Case. As above but of sturdy fiberboard. Luggage tan; w/ top. Wt., 3 1/2 lbs..... 2.00

82 RX 226. 7" Fiberboard Case. As above. Holds 75—7" records. 7 3/4 x 8 x 7 1/4"..... 1.00



DIAMOND NEEDLES

diamond replacement needles are made by a famous U.S. mfr. d's exacting specs. Crafted from whole diamonds. Some have ps (one diamond, plus one sapphire for 78-rpm records). affixes: XD—single-diamond stereo tip; XSD—sapphire and diamond tips; LPD—long-playing monophonic tip; SD—re and diamond, both monophonic; D—diamond, mono- 2 ox.

FOR SHURE CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
650	JPS-30LPD	1	P-30, 72, 76, 77, 79; PC Series	1.99
651	JPS-36SD	2	PC-2, 3, 4, 5; P-7, 8, 9; Wt-9, 10	1.99

FOR ASTATIC CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
644	A-68SD	3	57-T Series	1.99
658	A-74LPD	4	51, 53, 59, 402	
645	A-75LPD	5	ACD Series; 40, 41	
657	A-67LPD	13	64, 66, 68, 94, 405, 406	
646	A-81LPD	16	CAC-D; LQD; 44TB; 44-2; 46-2; and 62TV	1.99
742	A-90XSD	28	17; 17D	
501	A-94XSD	36	133; 133D	
669	CRA-55XD	37	70 Series; 80 Series	

FOR G.E. CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
642	G-19XD	6	VR-227	1.99
643	G-20XD	6	VR-225	
523	G-1D	24	RPX Series	
601	G-4D	25	4G Series; VR II	
502	G-21XSD	39	C-100	
507	G-22XSD	39	C-200	

FOR TELEFUNKEN CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
750	TE-19XSD	8	T-20; T-20DS	1.99

FOR RCA CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
622	M-77XSD	9	106770A, 106771A	1.99
652	M-70LPD	14	74067	
653	M-74LPD	15	75475, 77779, 75575	
753	M-80XSD	20	110020, 110021	

FOR EUPHONIC CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
614	J-47XD	10	E Series	1.99
752	J-57XD	30	U-1 Series; U-2 Series	
508	EU-IXSD	38	U-8; Admiral Ensign	

FOR VACO CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
669	CRA-55XD	37	ST-20; ST-40; ST-200	1.99
611	VA-29LPD	11	TN-45	

FOR RONETTE CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
649	CRA-55LPD	37	All Ronette Monaural; Astatic; BSR	1.99
602	CRA-57LPD	12	DC-122, 422, 500	
665	CRA-57XD	12	P-105, 106; BF-40; Ronette Stereo; Admiral Ensign	

FOR SONOTONE CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
746	S-80XSD	17	18T Series	1.99
747	S-82XSD	17	9T; 916T; 16T; Adm. Ensign	
620	S-71XSD	19	8T; A Series	
654	S-60LPD	22	3P Series	
655	S-61SD	23	3T Series	
656	S-66SD	23	2T, 5T, and 7T Series	

FOR CBS CARTRIDGES

No.	Type	Fig.	Fit Cartridge No.	EACH
671	CS-1XD	18	SC-1, 2, 7, 8	1.99

FOR MAGNAVOX CARTRIDGES

Stock No.	Type	Fig.	For Cartridge No.	EACH
81 R 648	M-50SD	21	560133, 151, 158, 169, 170	1.99

FOR PHILCO CARTRIDGES

Stock No.	Type	Fig.	For Cartridge No.	EACH
81 R 660	PH-13SD	26	76-4648, 4649; 325-8023, 8024	1.99

FOR ELECTRO-VOICE CARTRIDGES

Stock No.	Type	Fig.	For Cartridge No.	EACH
81 R 667	E-98XD	27	21, 26	1.99
81 R 510	E-10XSD	36	117, 131, 148	
81 R 514	E-15XSD	36	132; 132D	
81 R 518	E-16XSD	36	149; 149D	

FOR BSR CARTRIDGES

Stock No.	Type	Fig.	For Cartridge No.	EACH
81 R 669	CRA-55XD	37	TC-8S, H Series	1.99

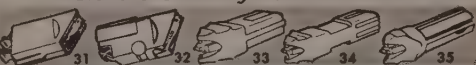
FOR DUAL CARTRIDGES

Stock No.	Type	Fig.	For Cartridge No.	EACH
81 R 744	DU-13XSD	29	CS-73	1.99

KNIGHT SAPPHIRE REPLACEMENT NEEDLES

Stock No.	Type	No.	Fig.	For Cartridge No.	EA.
81 R 730	Astatic	A-90X	28	17 Stereo	1.38
81 R 668	Astatic	CRA-55X	37	70TS, 80TS Series Stereo	.98
81 R 668	B.S.R.	CRA-55X	37	TC-8; H Series Stereo	.98
81 R 519	E.V.	E-10X	36	117, 131, 148 Stereo	.98
81 R 666	E.V.	E-98X	27	21, 26 Series Stereo	.98
81 R 613	Euphonic	J-47X	10	E Series Stereo	.98
81 R 741	Euphonic	J-57X	30	U-1, U-2 Stereo	.98
81 R 515	G.E.	G-1	24	RPX, RPJ Series	.98
81 R 636	G.E.	G-4	25	4G Series; VR II	.98
81 R 527	G.E.	G-21X	39	C-100 Stereo	.98
81 R 621	R.C.A.	M-77X	9	106770A, 106771A Stereo	1.19
81 R 583	Ronette	CRA-55LP	37	All Ronette Mono; Astatic, B.S.R. types	.98
81 R 664	Ronette	CRA-57X	12	P-105, 106; Ron' Stereo	.98
81 R 599	Shure	JPS-30LP	1	P-30, 72, 76, 77; all PC	.98
81 R 547	Sonotone	S-61	23	3T Series	1.19
81 R 550	Sonotone	S-66	23	2T, 5T, 7T Series	1.19
81 R 619	Sonotone	S-71X	19	8TA Series Stereo	1.19
81 R 734	Sonotone	S-82X	17	9T, 916T, 16T Stereo	1.38
81 R 668	VACO	CRA-55X	37	ST-20, ST-40, ST-200 Stereo	.98
81 R 517	VACO	VA-29LP	11	T-45 S-45	.98

Needle-Cartridge Combinations



PLUG-IN NEEDLE-CARTRIDGES. For Zenith "Cobra Arm."

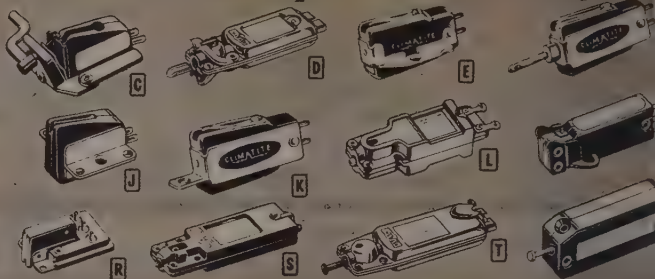
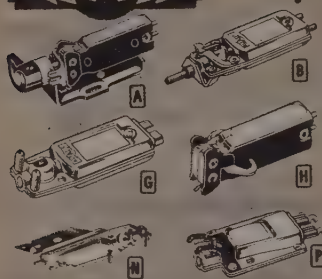
Stock No.	Type No.	Zen. Type	Fig.	Stylus	EACH
81 R 631	S-15780	Z-62	31	Sapphire	1.88
81 RC 693	S-15780	Z-62D	31	Diamond	7.95
81 R 632	S-15222	Z-61	31	Sapphire	1.88
81 RC 694	S-15222	Z-61D	31	Diamond	6.60
81 R 633	142-72	Z-65	32	Sapphire	2.68
81 RC 695	142-72	Z-65D	32	Diamond	7.95
81 R 634	142-71, 142-74	Z-64	32	Sapphire	2.68
81 RC 696	142-71, 142-74	Z-64D	32	Diamond	7.95
81 R 635	142-76, 142-77	Z-59	32	Sapphire	3.98
81 RC 697	142-76, 142-77	Z-59SD	32	Diamond	8.95

DIAMOND PLUG-IN NEEDLE-CARTRIDGES

Stock No.	Type	Fig.	Replaces	EACH
81 R 606	A-41SD	34	Astatic 81TX	4.49
81 R 610	A-43SD	34	Astatic 89TX	4.49
81 RC 689	A-44XSD	34	Astatic 13TX Stereo	4.95
81 R 625	E-36SD	35	E.V. 56DS	4.49
81 R 627	E-37SD	35	E.V. 76DS	4.49
81 RC 690	E-46XSD	35	E.V. 66DS Stereo	4.95

SAPPHIRE PLUG-IN NEEDLE-CARTRIDGES

Stock No.	Type	Fig.	Replaces	EACH
81 R 623	A-41	34	Astatic 81T	1.88
81 R 609	A-43	34	Astatic 89T	1.88
81 R 615	A-44X	34	Astatic 13T Stereo	3.49
81 R 624	E-36	35	E.V. 56	1.88
81 R 626	E-37	35	E.V. 76	1.88
81 R 618	E-46X	35	E.V. 66 Stereo	2.99



REPLACEMENT CODE

In "Replaces" column in Tables, the numbers stand for manufacturers as follows:

- | | |
|--------------|-------------|
| 1. ASTATIC | 7. EV |
| 2. RCA | 8. PHILCO |
| 3. V-M | 9. MAGNAVOX |
| 4. WEBSTER | 10. ADMIRAL |
| 5. RONEITE | 11. WEBCOR |
| 6. DELMONICO | 12. DYNAVOC |

MONOPHONIC TURNOVER TYPES

Crystal. For 78, 45, 33 $\frac{1}{2}$ and 16 $\frac{3}{4}$ -rpm records. Sapphire needles: .001" for micro-groove; .003" for 78-rpm records. *Ceramic—all others Rochelle-salt crystal. †Subminiature. ‡Less bracket. Av. wt., 4 oz.

Stock No.	Type	Fig.	Replaces	EA.
81 R 219	40-T	H	2, 3, 4, 10, 5	4.09
81 R 241	40-TB	A	4, 10, 2, 7	4.97
81 R 212	55-T	C	2, 3, 8, 7, 9	4.67
81 R 252	57-T*	C	1	5.59
81 R 240	62-TV	D	1	4.67
81 R 766	64-TS†	B	5, 3	4.09
81 R 223	66-TS	D	4, 3	4.26
81 R 253	66-TV†	D	1	3.82
81 R 209	118-TS†	F	3	3.79
81 R 210	120-TS†	F	3	3.79
81 R 200	310-T†	E	3	3.20
81 R 201	312-TS	F	2, 7, 3	3.79
81 R 301	314-TS†	F	2, 7, 3	3.20
81 R 269	316-TS	F	1	3.50
81 R 302	406†	D	4 (F-22)	4.67
81 R 303	409*	C	9	5.59
81 R 220	410	P	2 (75475)	3.82
81 R 202	420-TS-TB	F	3, 10, 5, 8, 9	3.20
81 R 203	422-TS-TB	F	4, 9, 8, 7, 3, 5	3.50
81 R 204	424-TS†	F	4	3.82
81 R 304	426-TS†	F	4 (A-204)	4.41

STEREO CARTRIDGES



SERIES 70. Crystal. .0007", .003" sapphires. *.0007" tip is diamond. †Bracket. 3 oz.

Stock No.	Type	Fig.	Replaces	EA.
81 R 229	70D*	Y	Phonola 2462	7.40
81 R 315	70TS	Y	1, 3	4.26
81 R 235	80TS	Y	6 (BSR-TC86), 12	4.26
81 R 314	74TS	Y	1	4.26
81 R 313	76TS†	Z	S. Delmonico	4.67

✕ PLUG-IN CARTRIDGES. Ceramic. *.0007" diamond. †With bracket. 3 oz.

Stock No.	Type	Description	EA.
81 R 229	11T†	2—.0007" sapph.	4.09
81 R 255	11TB†	2—.0007" sapph.	4.67
81 R 270	13AT	.0007", .003" sapph.	4.67
81 RC 368	13ATX	* and .003" sapph.	8.20
81 R 257	13T†	.0007", .003" sapph.	4.09
81 R 258	13TB†	.0007", .003" sapph.	4.67
81 R 259	13TBX†	* and .003" sapph.	7.02
81 R 259	13TX	* and .003" sapph.	6.44

ALL-GROOVE CARTRIDGES

.002" sapphire needle, except †.002" sapphire for mono records. ‡Less needle—screw-type chuck for standard needle. *Moisture resistant; ceramic. Others Rochelle-salt. 4 oz.

Stock No.	Type	Fig.	Replaces	EACH
81 R 250	16†	G	2, 4	2.32
81 R 234	22†	G	2, 4	2.32
81 R 213	28†	L	8, 2	2.32
81 R 243	40-2	M	5, 2	3.82
81 R 251	51-2*	J	2, 5, 9	4.35
81 R 224	66-2†	G	4	2.91
81 R 305	106†	N	4	2.91
81 R 205	310-2	K	1	2.91
81 R 307	414-2	E	5	2.62
81 R 310	416-2	E	5	3.20

MONOPHONIC LP TYPES

Crystal, except * ceramic—heat, humidity resistant. .001" sapphire for 45, 33 $\frac{1}{2}$ rpm records. Needle pressure 10 grams, except ‡8 grams; †6 grams. Av. wt., 4 oz.

Stock No.	Type	Fig.	Replaces	EACH
81 R 242	40-1†	M	2, 4	3.82
81 R 238	51-1*	J	2, 4, 5, 7	4.35
81 R 217	62-1	P	5	2.91
81 R 268	310-1†	K	1	2.91
81 R 244	408	P	2	2.62
81 R 206	414-1†	E	2, 5, 8, 9	2.62

STANDARD-GROOVE TYPES

High-output crystal types, except * ceramic. For 78-rpm discs. Use .003" needles. †With osmium needle; others less needle—screw-type chuck for conventional needle. 4 oz.

Stock No.	Type	Fig.	Replaces	EACH
81 R 228	2	W	8 (B2), 2, 4	5.29
81 R 227	4	S	2, 7	2.62
81 R 226	6	S	4 (F-22)	2.62
81 R 232	12	T	2	2.62
81 R 233	12-U	T	2, 5, 7, 3, 8	2.91
81 R 230	24	S	4	2.91
81 R 231	26	S	4	2.91
81 R 237	32	S	4	2.62
81 R 299	66-3	G	2, 9, 3, 8	2.91
81 R 225	402†	R	9	4.67

ZENITH REPLACEMENTS

(Not illus.) Plug-in cartridges with ceramic elements, except * coil. Needle pressure, 6 grams. Av. shpg. wt., 3 oz.

Stock No.	Type	Replaces Zenith	EACH
81 R 150	95	142-87 Purple	2.32
81 R 151	95D	142-88 White	5.85
81 R 152	95-1	142-89 Brown	2.32
81 R 153	97-1*	S-1522 Green	2.06
81 R 154	97-1D*	S-21458 Gold	8.82
81 R 155	97-2*	S-15780 Red	2.06
81 R 156	97-3*	and Green	2.06
81 R 157	99-1	S-11473 Red	2.94
81 R 158	99-1D	142-74 Blue and White	8.82
81 R 159	99-2	142-72 Yellow	2.94
81 R 160	99-3	142-73 Purple	2.94
81 R 161	101	142-77 Brown	4.41
81 R 162	101D	142-76 Gray	9.70

TURNOVER STEREO CARTRIDGES

SERIES 70. Ceramic element. Replaces 26 Series; RCA 106770A, 106771A; Sonotone 8TA4 Series. 20-20,000 cps. Separation, db. Tracks at 4-5 grams. .35-v. output *.0007" diamond. Av. shpg. wt., 4 oz.

Stock No.	Type	Description	EA.
81 RC 355	17	.0007", .003" sapph.	8.11
81 RC 356	17D	* and .003" sapph.	11.11

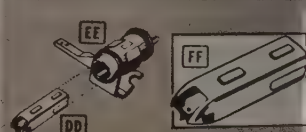
MAGNAVOX AND RCA



Ceramic, except * crystal. †diamond tip. ‡Not illus. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Replaces	EACH
81 R 163	322*	3	2 (sapph.)	3.2
81 R 164	322*	BB	8 (sapph.)	6.1
81 R 165	459D	BB	8 († sapph.)	8.5
81 R 166	461	AA	8 (sapph.)	6.1
81 R 167	461D	AA	8 († sapph.)	8.5
81 R 168	463	CC	8 (sapph.)	6.1
81 R 169	463D	CC	8 († sapph.)	8.5
81 R 170	78*	†	2 (sapph.)	4.2

SOUNDFOLO NEEDLE-CARTRIDGES



Ceramic monophonic cartridges. Cylindrical-shaped housing unit takes plug-in replacement cartridge-needle combination. Supplied with flip-over mounting bracket. Response, 30 to 15,000 cps. Tracking force, 6 grams. .001" sapphire tip for microgroove records; .003" sapphire tip for 78's, except *.001" diamond and .003" sapphires; a †.001" sapphire only. ‡Supplied with mounting bracket and turnover holder. Wt., 4 oz.

Stock No.	Type	Fig.	Replaces	EACH
81 R 207	81TB†	EE, FF	1	2.1
81 R 208	81T	FF	1	2.1
81 R 214	81TX*	FF	1	4.1
81 RC 344	81TBX*	EE, FF	1	5.1
81 R 272	89-1†	FF	1	2.1
81 R 275	89-T	FF	1	2.1
81 R 216	89TB†	EE, FF	1	3.1
81 RC 345	89TX*	FF	1	6.1
81 RC 351	89TBX*	EE, FF	1	7.1
81 R 311	91T	DD	4, 10, 6	2.1
81 RC 396	91TX*	DD	4, 10, 6	5.1
81 R 312	93T	FF	6, 4, Zen.	2.1
81 RC 398	93TX*	FF	6, 4, Zen.	5.1

Stereo and Monophonic Cartridges by SONOTONE



MONOPHONIC CERAMIC TURNOVER CARTRIDGES

These cartridges protect against distorting effects of heat and wear—prevent hum pickup. Require no preamp or equalization. Compliance for precision tracking. Series "2TA" can be used with stereo records. Cartridges with suffix "D" have diamond "S" have sapphire styli; "SD" have one sapphire, one diamond 1-volt output, except *0.5 v. For 1/2" to 3/8" mounting centers. *Narrow bracket for narrow pickup arms. Av., 3 oz.

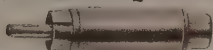
SERIES 1P CARTRIDGES (not turnover)				
Stk. No.	Type	Styli		EACH
306	1P-1S	.001" sapphire		2.85
308	1P-2S	.002" sapphire		2.85
309	1P-3S	.003" sapphire		2.85
317	1P-1D	.001" diamond		5.59

SERIES 2TA CARTRIDGES				
248	2TA-S	.0007" and .003" sapphires		3.62
358	2TA-SD	.0007" diamond; .003" sapphire		6.00
247	2TA-LB-St	.0007" and .003" sapphires		3.62

SERIES 2T CARTRIDGES				
318	2T-S	.001" and .003" sapphires		3.32
319	2T-LB-St	.0007" and .003" sapphires		3.32
320	2T-SD	.001" diamond; .003" sapphire		5.71

SERIES 3T WIDE-RANGE CARTRIDGES				
360	3T-S*	.001" and .003" sapphires		4.56
362	3T-SD	.001" diamond; .003" sapphire		7.29

CERAMIC PHONO CARTRIDGE EQUALIZERS FOR MAGNETIC AMPLIFIER INPUT



Just converts magnetic input on amplifier to plug ceramic cartridge lead (adapter). No additional wiring is needed.

Stk. No.	Type	For Sonotone Cartridges:	EACH
321	40592	"2" and "3" Series—one unit needed	2.35
322	40592MP	"8" Series—in matched pairs	3.53
323	40765MP	"9" Series—in matched pairs	3.53



STEREO VOICE TURNOVER CERAMIC TYPES

"S" indicates sapphire; "D"—diamond. *Not turnover type.

SERIES 20 STEREO CARTRIDGES					
Stk. No.	Type	Fig.	Styli	Output	EACH
RC 403	21*	B	.0007S	500 mv	5.59
RC 413	22D*	B	.0007D	500 mv	8.82
RC 402	22*	A	.0007S	20 mv	7.35
RC 425	22D*	A	.0007D	20 mv	10.58
RC 401	26	B	.0007S/.003S	500 mv	6.17
RC 435	26D	B	.0007D/.003S	500 mv	9.70
RC 399	27	A	.0007S/.003S	20 mv	7.94
RC 406	27D	A	.0007D/.003S	20 mv	11.57

SERIES 60 "POWER POINT" STEREO CARTRIDGES

Fire holding mechanism (D) below. Shpg. wt., 4 oz.

Stk. No.	Type	Styli	Fits	EACH
RC 292	61	.0007S/.0007S	PFT-3	3.50
RC 386	61D	.0007D/.0007S	PFT-3	7.61
RC 294	66	.0007S/.003S	PT-3	3.50
RC 391	66D	.0007D/.003S	PT-3	7.61

HOLDING MECHANISM FOR "POWER POINT" ABOVE

7/16", 1/2", and 3/8" mounting centers. Shpg. wt., 1/2 oz.

298. Type PFT-3. For 61 and 61D.

297. Type PT-3. For 66 and 66D. .59¢

Get More for Your Money at Allied

STEREOPHONIC CERAMIC TURNOVER CARTRIDGES

Feature low distortion, excellent response, high channel separation, high compliance. Have 1/2" and 3/8" mounting centers. Series "8TA4" mounts on 7/16" centers. Av. shpg. wt., 4 oz.

SERIES 10T PLUG-IN CARTRIDGES. 0.5-v. output				
Stock No.	Type	Styli		EACH
81 RC 261	10T2-S	.0007" and .003" sapphires		4.17
81 RC 363	10T2-SD	.0007" diamond; .003" sapphire		6.45
81 RC 262	10T2-S77	Two .0007" sapphires		4.17
81 RC 365	10T2-SD77	.0007" diamond; .0007" sapphire		6.45

SERIES 9TAF SONO-FLEX CARTRIDGES. 0.35-v. output.				
81 RC 324	9TAF-SF	.0007" and .003" sapphires		5.20
81 RC 325	9TAF-S77	Two .0007" sapphires		5.20
81 RC 326	9TAF-SD	.0007" diamond; .003" sapphire		8.08
81 RC 327	9TAF-D77	Two .0007" diamonds		10.00

SERIES 16TA CARTRIDGES. 0.5-volt output.				
81 RC 366	16TA-S	.0007" and .003" sapphires		3.53
81 RC 367	16TA-SD	.0007" diamond; .003" sapphire		5.73
81 RC 368	16TA-S77	Two .0007" sapphires		3.53

SERIES 16TAF SONO-FLEX CARTRIDGES. 0.5-v. output				
81 RC 328	16TAF-S	.0007" and .003" sapphires		3.82
81 RC 329	16TAF-SD	.0007" diamond; .003" sapphire		6.17
81 RC 330	16TAF-S77	Two .0007" sapphires		3.82

SERIES 18TA CARTRIDGES. 0.7-volt output.				
81 RC 383	18TA-S	.0007" and .003" sapphires		3.53
81 RC 384	18TA-SD	.0007" diamond; .003" sapphire		5.73
81 RC 385	18TA-S77	Two .0007" sapphires		3.53

SERIES 8TA4 CARTRIDGES. 0.3-v. output.				
81 RC 392	8TA4-S	.0007" and .003" sapphires		5.13
81 RC 405	8TA4-S-77	Two .0007" sapphires		5.13
81 RC 414	8TA4-SD	.0007" diamond; .003" sapphire		7.64

SERIES 12T CRYSTAL CARTRIDGES. 2.5-v.				
81 RC 273	12THRS	.0007" and .003" sapphires		3.44
81 RC 274	12THRS-77	Two .0007" sapphires		3.44

SERIES 916TAF SONO-FLEX CARTRIDGES. 0.42-v. output				
81 RC 332	916TAF-S	.0007" and .003" sapphires		4.50
81 RC 333	916TAF-SD	.0007" diamond; .003" sapphire		6.91
81 RC 334	916TAF-S77	Two .0007" sapphires		4.50

Wide-Range FEATHERIDE Ceramic Cartridges

- Play Stereo or Monophonic Discs
- Cartridge and Mount Included

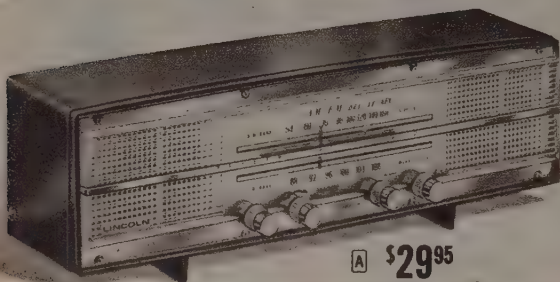
Protect your prized stereo and monophonic records, and hear glorious high-fidelity sound reproduction. Ingenious cartridges offer all the advantages of the most modern electro-mechanical design. Damage to the stylus and record is eliminated. Reduce distortion caused by warped records; have uniform response for outstanding playback. Excellent channel separation and extremely high compliance. Both types have .0007" diamond, and .003" sapphire styli. Fit any modern phonograph using a ceramic cartridge with 7/16" or 1/2" mtg. centers. Shpg. wt., 3 oz.

81 RC 404. Model 149F. Tracking Force 2.4 grams. **13.50**

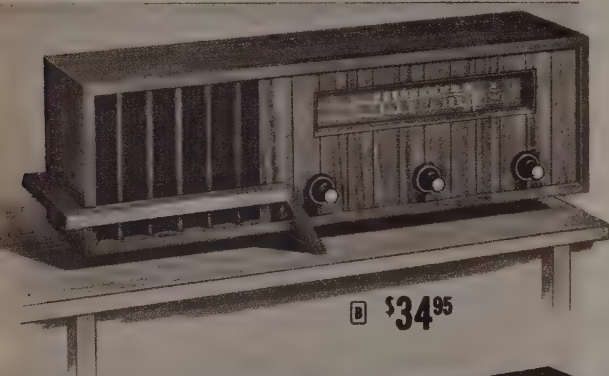
81 RC 416. Model 150F. Tracking Force 4.6 grams. **13.50**

SERIES 100 STEREO "POWER POINT" CARTRIDGES. 4 oz.				
Stock No.	Type	Styli	Fits Holder	EACH
81 RC 726	107	.0007S/.0007S	PT-6	3.57
81 RC 727	107D	.0007D/.0007S	PT-6	7.77
81 RC 728	108	.0007S/.003S	PT-7	3.57
81 RC 729	108D	.0007D/.003S	PT-7	7.77

FM-AM Table Radios... Good Tone — Low in Price



A \$29⁹⁵



B \$34⁹⁵



C \$49⁹⁵



D \$38⁵⁰

FM-AM RADIO WITH TWO SPEAKERS

A This low-cost radio lets you enjoy beautiful FM music through twin 4" dynamic speakers. Your favorite AM broadcasts are available, too—and there's never any doubt about whether you're on FM or AM—pilot lights tell you at a glance. Other features: AFC control for drift-free FM reception; AVC to ensure steady volume; slide-rule tuning for exact and effortless dialing; efficient built-in antenna for AM, wire antenna for FM; output jack for extension speaker; 3-position control for adjusting tone to your personal taste. Sensitive 7-tube circuit (plus rectifier) brings in stations from far and near. Smartly styled, high-impact plastic case. 6x17x6". Fine urban reception. For 110-120 volts, 60 cycle AC. From Japan. Shpg. wt., 13 lbs.
24 SX 212D. \$5 Monthly.....29.95

NEW! DELUXE FM-AM RADIO IN DECORATOR WOOD CABINET

B Matches sparkling sound with beautiful appearance. Tastefully styled wood cabinet, finished in oil-stained walnut, makes an impressive addition to your home. Sensitive circuit (6 tubes, 3 diodes and rectifier) gives you excellent reception of stations—delivers big, natural sound through a dual-cone 4x6" speaker. AFC control locks in FM stations; AVC keeps volume steady all the time; AGC practically eliminates "fading" on weak stations. Also: 2-position tone switch; pilot light; slide-rule tuning; built-in ferrite bar antenna for AM; wire antenna for FM. 6x19x6". For 110-120 volts, 60 cycle AC. From Japan. Shpg. wt., 9½ lbs.
24 SX 213D. \$5 Monthly.....34.95

FM-AM-SW RADIO WITH 4 SPEAKERS

C A truly remarkable 3-band radio. With it, you tune in countries from all over the world for on-the-spot international news, or music. You also enjoy the music's brilliance of full-bodied FM sound, and crisp, clear standard AM broadcasts. This unusual variety of fact comes to you through two 4" and two 5" high-quality speakers, arranged to deliver "console" sound. Solidly constructed wood cabinet, finished in walnut, accentuates bass response. Additional features: AVC to prevent blasting; tone control for adjustment to exactly suit your taste; easy-to-read slide-rule dial for quick, precise tuning. Modern circuit (7 tubes and rectifier) ensures static-free reception of local FM stations, and long-distance AM reception. Compact cabinet size, 7½x24½x5½". For operation from 110-120 volts, 60 cycle AC. From Japan. Shpg. wt., 16 lbs.
24 SX 216D. \$5 Monthly.....49.95

NEW! LOW-COST FM-AM CLOCK RADIO... FALL ASLEEP AND WAKE UP TO MUSIC

D It's a treat to be lulled to sleep and gently awakened by beautiful FM music. And this good-looking radio gives you that luxury at low cost. G.E. Telechron clock movement functions dependably to automatically tune radio off at night and on in the morning. If it takes more than music to get you out of bed in the morning, just set the buzz alarm, which operates after music plays for 15 minutes. Radio has big-set sound and lets you listen to AM broadcasts, too. AFC control keeps FM stations locked-in for drift-free listening; AVC ensures a signal that's always steady—free of blasting. Slide-rule dial permits quick tuning. Highly sensitive superheterodyne circuit has 6 tubes and 5 diodes. Smart high-impact plastic cabinet in beige and ivory—silver control panels, black and white clock face. 7¾x11½x4¾". For 110-120 v., 60 cycle AC. Shpg. wt., 10½ lbs.
24 SX 232D. \$5 Monthly.....38.50

Driving's Always More Fun with a Car Radio

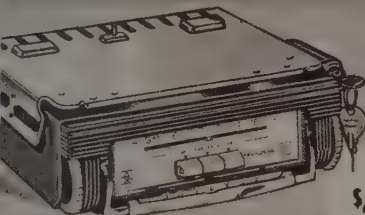


NEW!

FM-AM

Pushbuttons
Change Bands
and Select
Stations

**9-TRANSISTOR
CIRCUIT REDUCES
BATTERY DRAIN TO
ALMOST NOTHING**



mounts in Power Pack Under Dash—
Pulls Out for Use as Portable.

\$49⁹⁵

\$5 monthly

4 CAR AND PORTABLE 7-TRANSISTOR RADIO

satellite radio that's fun to use for everyone. Fits neatly beneath dash of any American or foreign car as a powerful pushbutton with excellent tone—or slips out of its power pack and goes out as a slim, handsome portable. Ideal for news and sports fans don't miss anything interesting or exciting. Runs on its own batteries when used as a portable. Low current-drain gives batteries life. Sensitive circuit uses 7 transistors and 2 diodes to bring in loud and clear. Supplied complete with power pack, lock (to prevent theft from your car), lead, mounting hardware, self-contained batteries (uses 4). Nylon case, 7x6x2 1/4". For 6 or 12 VDC negative or positive ground systems. From Italy. Shpg. lbs.

021D. \$5 Monthly. **49.95**
20. Extra Batteries. Uses 4. Wt., 2 oz. EACH 10c

FM-AM TABLE RADIO IN WOOD CABINET

ear FM as it should be heard—twin-speaker radio delivers the full-dimensional flow of FM music with impressive realism, of static. All your favorite AM broadcasts are available too, listening better than ever. Two 4" dynamic speakers produce "big-sound, enriched by the resonance of a solid-wood cabinet. Sensitive 7-tube circuit maintains strong, constant signal—there's no fading or blasting. AFC circuit holds station steady so that you enjoy clear FM music.

features include: tone control allowing adjustment of tonality to satisfy your preference; output for extension speaker to listen in more than one room; tape recorder output for recording tapes of memorable program material; built-in AM ferrite antenna; wire antenna for FM reception. Has 7 tubes and rectifier. Attractively finished in eye-appealing walnut—looks good in any room. Size, 6 1/2 x 17 1/2 x 5 3/4". For 110-120 v., 60 cycle AC. From Japan. Shpg. wt., 14 lbs.

213D. \$5 Monthly. **39.95**

With Antenna

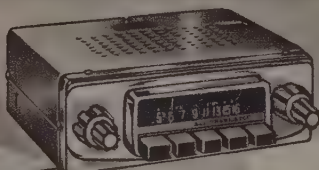
\$79⁹⁵

- No Fade-Out or Static on FM
- AFC Ensures Drift-Free FM
- Pulls in Far-Away AM Stations

ALL-TRANSISTOR FM-AM PUSHBUTTON RADIO

Now, with one compact car radio you can enjoy the advantages of both FM and AM as you drive. What's more, it's all-transistorized for negligible battery drain and for high dependability. Five "quick-set" pushbuttons let you choose stations instantly—two on FM; three on AM. FM section has four IF stages, AFC to lock in stations, and Automatic Volume Control for extra-stable reception without blasting. AM section has RF stage for long-distance reception. Includes tone control. Precision vernier tuning. Sensitive circuit has 9 transistors and 9 diodes. 6-watt output. Wide-range 5x7" speaker (included) mounts easily under dash. Single-chassis design. Includes FM-AM antenna. Only 8 1/2 x 8 1/2 x 2 3/4". Universal mounting—for any car or truck with 12 VDC negative ground. Shpg. wt. 13 1/2 lbs.

24 SX 228D. \$5 Monthly. **79.95**



Includes
Speaker and
Antenna

\$39⁹⁵

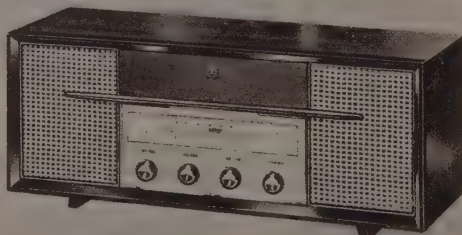
\$5 monthly



6-TRANSISTOR AM PUSHBUTTON CAR RADIO

Driving time seems shorter than ever before when you can listen to a top-quality radio that delivers crisp, clear sound and offers the ease of instant pushbutton tuning. Full-tone speaker and efficient telescoping antenna are supplied with radio at no extra charge—an outstanding value. Smartly styled, it enhances decorative effect of your car's interior. Has off-on, volume, tone and tuning controls. Pushbuttons select any five stations. Works with any car—just flip polarity switch to match car's electrical system. Powerful unit uses a sensitive 6-transistor superhet circuit that ensures fine reception of stations from near and far. Draws hardly any current—a boon to your car's battery. With lead-in and standard plug. Chrome-finish front panel. Compact size, 7x6x2 1/4". For 6 or 12 VDC systems. From Japan. Shpg. wt., 12 lbs.

24 SX 218-2D. \$5 Monthly. **39.95**



\$39⁹⁵

\$5 monthly

- Two 4" Dynamic Speakers
- Solid-Wood Walnut Cabinet

Get More for Your Money When You Buy From Allied

ALLIED 215

Quality Guitars, Speaker-Amplifiers and Outfits

OUR FINEST PROFESSIONAL GUITAR and TRANSISTORIZED SPEAKER-AMPLIFIERS

A truly deluxe electric guitar and your choice of five transistor amplifier-speaker units. Guitar is perfectly matched to amplify give exciting, virtually distortionless sound—sure to please the discriminating musician. Top panel construction of the speaker amplifier cases gives easy access to controls. Transistorized amplifiers require no warm up.

A 35-WATT TRANSISTORIZED SPEAKER-AMPLIFIER. Provides many advantages for the serious musician. Transistors produce truer, cleaner music. No warm-up—no stand-by switch needed. Efficient circuit and special 12" speaker give wide response. 2-channel feature: each channel has independent controls, and 3 instrument inputs (total of 6). Chassis is removable—operates up to 25' on 7 controls. 11 transistors, 8 diodes. With foot switch for vibrato, 10½" legs. 20x24x12" deep. For 110-120 v., 60 cycle AC. Shpg. 50 lbs. Shipped Express only. **169**

24 RZ 774D. \$9 Monthly.

24 RZ 775D. As above, but less legs and removable chassis. **12**

24 RU 772D. 15 watts. 8 transistors. 2-channel. 15" spkr. 9 controls. Ft. switch. Less legs. 17½x20x9½". 30 lbs. **1**

24 RU 776D. 10 watts. 6 transistors. 10" speaker. 4 controls, 4 instrument inputs. Less legs. 17½x20x9½". 26 lbs. **6**

24 RU 778D. 5 watts. 6 transistors. 8" speaker. 4 controls, 3 instrument inputs. Less legs. 13½x16¾x7". 14 lbs. **4**

24 RU 773D. 4 watts. 4 transistors. 8" speaker. 2 controls, 3 instrument inputs. Less legs. 13½x16¾x7". 12 lbs. **3**

B ELEGANTLY STYLED PROFESSIONAL GUITAR. You'll be thrilled by the brilliant sound of this handsome, double-cut electric guitar. And, you'll enjoy the way your fingers swiftly over the entire fret range of its thin, adjustable neck. Features vibrato tailpiece and adjustable steel-reinforced hard maple neck won't twist or warp. Top, back and sides are of select laminated curly maple. Oval rosewood fingerboard with inlaid genuine ivory markers, nickel-silver frets and celluloid binding. Flat-wound professional strings. Has two pickup units with individual adjustment posts, separate controls and selector switch. Hand-rubbed cream brown finish with golden sunburst. Complete with instructions, book, and pick. Size, 41x15¼x2". Less carrying case, listed below. Shpg. wt., 17 lbs. **159**

24 RX 725D. \$8 Monthly.

24 RX 729D. Carrying Case. Shpg. wt., 10 lbs.

C COMPLETE SENIOR GUITAR OUTFIT FOR ALL AGES—VALUE-PRICED

Attractively styled guitar and transistorized speaker-amplifier—all the extras you need to get started and keep on going. Selected to offer the proper balance and superior sensitivity. Perfect for giving occasions or for your own pleasure. Enjoy the satisfaction of learning and the thrill of performing.

Guitar. Slimly styled in hand-rubbed, blonde-finished curly maple. Oval rosewood fingerboard has professional frets, 9 inlaid position markers, celluloid bindings. Steel-reinforced neck prevents warping and twisting. Brushed metal guardplate; polished metal professional tailpiece. Dual pickups—separate tone and volume controls for each. Instantaneous selector switch—play either pickup individually or both together. 13½" wide, only 1¾" deep.

4-Transistor Speaker-Amplifier. Compact 4-watt unit that delivers clean, wide-range sound. Boasts 4 transistors and 2 diodes—instant warm-up—no standby switch needed. Features big 8" speaker, instrument inputs, each with a different tone quality (treble, normal, bass); and separate tone and volume controls. 13½x16¾x7". Listed. For 110-120 v., 60 cycle AC.

Complete Outfit. Includes: double-pickup guitar; transistor speaker-amplifier; set of extra strings; connector cable; 3" neck strap; book of 200 familiar songs; complete instructions. case, listed below. Shpg. wt., 23 lbs.

23 RU 025-2D. \$6 Monthly. **109**

24 RU 718D. Carrying Case. Shpg. wt., 14 lbs.

Chassis
Removes
for Remote
Operation

**COMPLETE
SENIOR
GUITAR OUTFIT**

\$109⁹⁵

\$6 Monthly



Exciting Electric Guitars, Amplifiers for Every Need

**FUNCTIONAL STYLING
—FULL RESPONSE**

C DOUBLE-CUTAWAY WITH VIBRATO TAILPIECE

Crafted of laminated curly maple with oval rosewood fingerboard. Thin adjustable neck, adjustable rosewood bridge. 6 inlaid frets, nickel-silver frets. Celluloid binding. 2 magnetic pickups for tone balance. Separate tone and volume controls, master selector switch. With song book, pick. 40 1/4 x 15 1/4 x 1 3/4". Case, below. Shpg. wt., 14 lbs.

757D. \$7 Monthly..... **139.95**

720D. Carrying Case. Shpg. wt., 10 lbs. **10.95**

B 50-WATT "PRO" SPEAKER-AMPLIFIER

For accomplished guitar virtuoso who demands high-fidelity response. Dual-channel 8-tube circuitry faithfully reproduces frequency range of 20 to 20,000 cps. Also has a vibrato circuit with tone and amplitude controls, plus a foot switch input. Four speakers—two 12" and two 5"—produce the big sound you want with minimum distortion. Each channel has volume control, bass and treble boost. On-off switch, stand-by switch with pilot light and fuse. Wood cabinet covered in scuff-resistant, long-wearing and gray material. For 110-120 v., 60 cycle AC. Shpg. wt., 14 lbs. Shipped express only.

758D. \$8 Monthly..... **159.95**

C **D** TRIPLE AND DUAL PICKUP GUITARS

C SINGLE PICKUP. Strum this professional guitar and hear brilliant, room-filling response. Super auditorium-size curly maple body, only 2" deep—comfortable to hold and play. Adjustable, reinforced maple neck. Celluloid-bound oval rosewood fingerboard with six inlaid blocks, nickel-silver frets. 3 magnetic pickup units with adjusting posts for each string. Each pickup has separate tone and volume controls. Instantaneous selector switch lets you use any one of the units individually or all together. Flat-wound professional strings. Hand-rubbed walnut finish with golden sunburst. 41 x 15 x 2". Instructions, song book, pick included. Less carrying case, below. Wt., 14 lbs.

724D. \$6 Monthly..... **119.95**

RU 721D. Dual Pickup. As above, but with only 4 controls. Shpg. wt., 14 lbs. \$5 Monthly..... **99.95**

722D. Case for Above Guitars. Wt., 10 lbs. **10.95**

**Lowest-Cost
Lightweight
Guitars**

E **F** LIGHTWEIGHT SEMI-SOLID GUITARS

E SINGLE PICKUP. Eye-appealing, beautifully proportioned guitar that combines the pure, brilliant tone of the electric with the rich undertones of the acoustical guitar. Has tone and volume controls. Hollow body is of laminated, crackproof maple. Slim neck is steel-reinforced to prevent warping. Hard maple fingerboard has five large, hand-inlaid markers and professional frets. Extra-wide white celluloid binding on the top and back edges. Nickel-plated trapeze tailpiece, and top-quality guitar strings. Has powerful, sensitive magnetic pickup unit. Chrome-plated guard-plate. Lustrous dark brown finish with shining sunburst on top and back. With instructions, pick and neck cord. 39 x 13 1/4 x 1 3/4". Less case, below. Shpg. wt., 14 lbs.

24 RU 716D. \$5 Monthly..... **44.95**

F TRIPLE PICKUP. Same as above, but has three pickup units, each with its own separate tone and volume control, plus an instantaneous selector switch that lets you play each unit separately or all three together. Shpg. wt., 14 lbs.

24 RU 717D. \$5 Monthly..... **69.95**

24 RU 718D. Case for Above Guitars. Wt., 13 lbs. **5.95**

ALLIED

Our 43rd Year of Service to Amateurs. There's More for the Ham at Allied

hallicrafters



Mosley
TA-33 JR

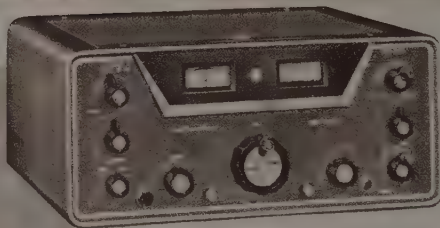
Save \$33.01



E-V 664
Dynamic Mike

P-150 AC POWER SUPPLY/SPEAKER. Matches SR-150. Has 5 silicon rectifiers, 4x6" speaker. 6 1/4 x 7 1/2 x 10". For 115 v. AC. Wt., 22 lbs.
86 SX 058. \$5 Monthly.....

86 SX 057. P-150 DC SUPPLY: For 12 v. DC. 3 3/4 x 10 x 6 1/4". Wt., 10 lbs. \$6 Monthly.....



FIXED/MOBILE SR-150 SSB TRANSCEIVER

- Receiver Incremental Tuning
- Covers 80-15 and 28.5-29 Mc
- Exclusive Amplified ALC
- SSB Operation, VOX or PTT
- Manual or Break-In CW Key
- 1650-kc Crystal Filter

Complete Pkg.

\$739⁹⁵

HALLICRAFTERS, MOSLEY, E-V TRANSMIT-RECEIVE PACKAGE

Truly a money-saving package for the discriminating Ham! Famous SR-150 transceiver offers superb SSB/CW coverage of the 80 through 15-meter bands plus 28.5 mc (with crystals furnished)—actually has 8-band capability. Special Receiver Incremental Tuning control permits ± 2 kc adjustment of receiver frequency independent of transmitter. Also has exclusive Hallicrafters' Amplified Automatic L Control. Power input to 12DQ6Bs in final: 150 w. PEP on SSB, 125 w. on CW. Lightweight and compact unit, just 6 1/2 x 15 x 13" employs 18 tubes, 1 VR, 10 diode varicap. Carrier and unwanted sideband suppression, 50 db; distortion product 30 db. Dial calibrations every 5 kc; VFO tunes 500 kc. Built-in 100-kc calibrated Receiver sensitivity, less than 1 μ v for 20 db S/N ratio. Mosley TA-33 JR 3-element beam covers 10/15/20 meters with gain up to 8 db and 25 db F/B ratio; has 1' turning radius. Electro-Voice 664 "Variable D" dynamic mike provides card pattern with high front-to-back discrimination; 18' cable. SR-150 is supplied with power supplies (see left). Shpg. wt. 47 1/2 lbs.

23 SU 261-3D. Complete Package. No Money Down. Save \$33.01.....

23 SU 262-2D. SR-150 and E-V 664 Mike. 19 1/2 lbs. Save \$10.03.....

86 SU 056-D. SR-150 Alone. Shpg. wt., 17 1/2 lbs. \$27 Monthly.....



SX-117 DELUXE AMATEUR-BAND RECEIVER

Triple-conversion receiver for top SSB, CW and AM reception. Excellent stability—has crystal-controlled HFO, 1st and 3rd converters. Crystals supplied cover 3.5-4.0, 7.0-7.5, 14.0-14.5, 21.0-21.5, 28.5-29.0 mc. Sensitivity, 1/2 μ v (CW) for 10 db S/N. Variable 3-step selectivity 500-5000 cps.

Has T-notch, product/envelope detector, 100-kc calibrator, etc. 7 1/2 x 15 x 13". For 115 v. AC. Less speaker. 21 lbs.
90 SU 061. \$18 Monthly.....

90 S 458. HA-10 Low-Frequency Converter. For 160 meters. 4 1/2 lbs.....



SX-115 RECEIVER

Precision, triple-conversion Ham-band receiver for superb reception of SSB, CW and AM. Covers these segments: 3.5-4.0; 7.0-7.5; 14.0-14.5; 21.0-21.5; 28.0-28.5; 28.5-29.0; 29.0-29.5; 29.5-30.0; 9.5-10.0 mc for WWV. Has band-pass filter front end; crystal-controlled 1st and 3rd converters; selectivity variable in 5 steps from 500-5000 cps; sensitivity of 1/2 μ v on SSB/CW; product detector; 1-kc linear calibrations; 100-kc calibrator; dual loop AVC; USB/LSB selection. 10 1/2 x 16 x 16". Less speaker (below). For 115 v. AC. 47 lbs. Express.
90 SZ 031. \$25 Monthly.....



HT-32B TRANSMITTER

Versatile table-top transmitter-exciter for SSB, CW and AM on the 80 through 10-meter bands. Incorporates beam-deflection high-level modulator and 5-mc quartz crystal for SSB generation. Final runs up to 144 watts (PEP 2-tone) input to 6146s. Gear-driven CTO permits direct reading of frequency to 1 kc. Other highlights: built-in PTT and VOX; logarithmic panel meter; sideband selection phone patch input; 52-ohm pi-network; 50 db carrier suppression; clean keying. 10 3/8 x 20 x 16". For 105-125 v. AC. 86 lbs. Express.
90 SZ 033. No Money Down.....



HT-33B LINEAR AMPLIFIER

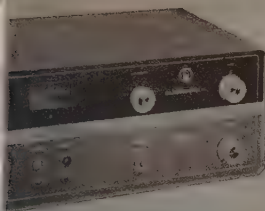
Run the maximum legal input with this conservatively rated 1-kw linear. A match unit for the HT-32B (left), it provides bi-switched coverage of the bands 80 through 10 meters. Uses PL-172 pentode in 2 drive Class AB₁. Meters for RF output cathode current permit fast, precise tuning. Stable passive grid input circuit matches 50-75 ohms—needs no tuning or neutralization. Has variable pi-net output. Built-in power supply offers exceptional regulation. Screen voltage is controlled by 6-ohm regulators. Fully fused. Circuit breaks protects high-voltage supply. Bias supply has front-panel control to adding current. Plug for cut-off bias. 10 20 x 16". For 105-125 v., 50-60 cycle AC. lbs. Shipped express.
90 SZ 034. No Money Down.....

HALLICRAFTERS 3.2-OHM MATCHING SPEAKERS

90 S 059. R-47. For speech and CW. 5 1/2 x 5 1/4 x 3 1/2". Wt., 2 1/2 lbs.....

90 SX 060. R-48. Full fidelity. CW/voice switch. 6 5/8 x 13 1/4 x 8 1/4". 9 lbs.....

Communications Equipment by Hallicrafters



T-41 LINEAR AMPLIFIER

companion unit for the HT-37 (right), 41 covers 80 through 10 meters with put of 1000 watts PEP through 20 slightly less on 10. AM input, 300 w.; out, 800 w. Can be driven by any 20 watt SSB exciter. Uses 2-7094 tetra grounded-grid circuit. Has pi-net, tput meter, standby bias supply, built-in power supply and overload ion. Coaxial input and output for 40 ohms. Size, 9x19 1/4x17". For 105-125 30-60 cycle AC. Shpg. wt., 97 lbs. d express only.

399. \$18 Monthly.....395.00



Popular HT-37 Transmitter
Works the 80 to 10-Meter
Bands with 70-100 Watts
PEP Output on SSB/CW

Complete Pkg.
\$594⁹⁵
\$25 monthly

Save
\$23.01



E-V 664 Mike



Mosley
TA-33 JR

HALLICRAFTERS, MOSLEY, E-V TRANSMITTING PACKAGE

Features the carefully designed HT-37 that brings SSB operation within everyone's reach! Offers 70 to 100 watts PEP output on SSB and CW, and 17-25 w. AM output. Covers the 80 through 10-meter Ham bands with: high-stability VFO; sideband suppression of 40 db at 1000 cps; calibration system permitting instant CW CAL from any transmission mode; full VOX; 2-6146s in final; ideal CW keying; dual-range panel meter; 52-ohm pi-network output. Many more extras! Mosley TA-33 JR 3-element beam

covers 10/15/20 meters with gain up to 8 db and 25 db F/B ratio; has 12' boom and 14' 9" turning radius. Electro-Voice 664 dynamic mike has cardioid pattern, 18' cable. HT-37, 9x19 1/4x17 1/2", is for 115 v. AC. 112 lbs. Express. Save \$23.01.

23 SZ 263-3D. Complete Pkg.594.95

23 SU 264-2D. HT-37 and EV 664 Mike. 84 lbs. Save \$15.03. \$23 Monthly.....529.95

90 SZ 035. HT-37 Alone. Wt., 82 lbs. Express only. \$21 Monthly.....495.00

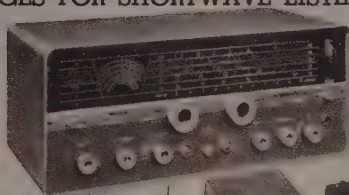
EXCLUSIVE SX-110 PACKAGES FOR SHORTWAVE LISTENERS

on the shortwave fun with this famous receiver—rips, planes, Hams, foreign broadcasts and lots more! AM broadcast from 540-1680 kc plus 3 shortwave from 1680 kc to 34 mc. Slide-rule bandspread dial is used for the 10, 15, 20, 40 and 80-meter Ham bands—mc CB. Also has calibrated 5-meter, crystal filter, 2 IF stages, BFO with pitch control, automatic limiter, tone control and antenna trimmer. With 7 rectifier. Silver-trimmed 8 1/2x18 3/4x11" gray steel. Less speaker (use R-48, opposite page, with this). For 105-125 v., 50-60 cycle AC. Shpg. wt., 35 lbs. Choice of Dual Headphones or Outdoor Antenna. Just \$1 More.

265-2D. SX-110 and Headphones. 36 lbs.170.95

266-2D. SX-110 and Antenna Kit. 38 lbs.170.95

058. SX-110 Receiver Alone. \$9 Monthly.....169.95



SX-110 Alone

\$169⁹⁵

Special \$1 Bonus



Lincoln
Dual
Head-
Phones



Special \$1 Bonus

Outdoor Antenna
Kit for SW
and AM
Broadcast
Reception

DELUXE MODEL SX-62A 6-BAND FM-AM-SW RECEIVER



fully styled for peak performance on shortwave and FM—continuously tunes 350 kc to 109 mc! Covers 6 ranges: 1620 kc; 1620 kc-4.9 mc; 4.9-15 mc; 15-27.56 mc; 54-109 mc (FM-AM). Full 6V6s in output provide 10 watts of mod audio. Has 4-position tone control; input and headphone jacks; 500-ohm tuning crystal; AVC; BFO and ANL. 500-ohm tuning crystal filter, 3 IF and 2 RF give high sensitivity and selectivity. 500-ohm speaker outputs. 10 1/2x 7". Less speaker (uses R-48, facing page). For 105-125 v., 50-60 cycle AC. Express only.

065. \$19 Monthly.....430.00

6-BAND HAM STATION

For CW
and AM



HA-5



HT-40



SX-140

HT-40 and SX-140 AVAILABLE
IN WIRED OR KIT FORM

HT-40 TRANSMITTER

Popular CW/AM transmitter for the 80 through 6-meter bands—matches SX-140 (right). Input is 75 watts peak to 6DQs; slightly less on 6-meter AM. Provision for external VFO (see HA-5, below). TVI filtering. 7 1/2x13 3/8x8 1/4". For 105-125 v., 50-60 cycle AC. Wt., 19 lbs. \$6 Monthly.

90 SU 085. Factory Wired.....109.95

90 SU 086. Kit Form. \$5 Monthly.....89.95

SX-140 RECEIVER

Sensitive, selective Ham-band receiver for 80 through 6 meters—matches HT-40 (left). Has S meter, ANL, calibration reset, phone jack, 25-to-1 tuning ratio, internal transmitter/antenna switching. 7 1/2x13 3/8x8 1/4". Less speaker (opposite page). For 115 v. AC. 14 lbs. \$7 Monthly.

90 SU 087. Factory Wired.....139.95

90 SU 088. Kit Form. \$6 Monthly.....114.95

HA-5 HETERODYNE-TYPE VFO

Extremely stable, self-powered VFO with illuminated dial calibrated for all Ham bands 80 through 2 meters. 5.0-to-5.5 mc variable oscillator can be directly zero-beated with WWV. Has 30-to-1 tuning ratio

and mixer-tube cathode keying. Output: 3.5-4.0, 7.0-7.5, 7.8-8.3, 8.333-8.833 mc. 5x7x 8 1/2". With crystals for 80-10 meters. For 115 v. AC. Wt., 8 lbs. \$5 Monthly.

90 S 070. Factory Wired.....79.95

ns with U or Z in Stock No. Shipped Truck or Express

ALLIED 219



Popular Hallicrafters Shortwave Receivers

HAM AND HOBBYIST FAVORITES



S-118
\$99.95
\$5 Monthly

Longwave-AM-Shortwave. Extended coverage of the low frequencies.



FREE BONUS!

Get a SWL Guide and Record With Any Hallicrafters Receiver on This Page!



S-108
\$139.95
\$7 monthly

HALLICRAFTERS MODEL S-108 SHORTWAVE-AM RECEIVER

HALLICRAFTERS MODEL S-118 LW-AM-SW RECEIVER

Buy this popular 5-band shortwave receiver, get a FREE Shortwave Book and Record. You'll hear FAA weathercasts, beacons, consolan, small aircraft, the 500-kc distress frequency, Radio Amateurs, Standard AM broadcasts plus thrilling worldwide shortwave. Covers these ranges: 185-420 kc; 495-1620 kc; 1.6-4.95 mc; 4.85-15 mc; 14-8-15 mc. Features slide-rule dial with electrical bandspread, noise limiter, BFO for code reception, built-in speaker and ferrite loop antenna, socket for external DC power, phone jack, phono input/audio output jack. IF, 455 kc. Antenna input impedance of 50-75 ohms for shortwave bands. Has 5 tubes, 2 silicon diodes. Size, $5\frac{3}{4} \times 14\frac{1}{2} \times 8\frac{1}{2}$ ". For 110-125 v., 50-60 cycle AC. 20 lbs. 23 SU 235-3D. \$5 Monthly.....99.95

You get a FREE Shortwave Book and Record when you buy this fine general-coverage receiver. Tunes standard broadcast and shortwave bands continuously from 540 kc to 34 mc in 4 ranges. Slide-rule bandspread dial is calibrated for the 80, 40, 20, 15 and 10-meter Ham bands. Has 0-100 logging scale. Superheterodyne circuit utilizes one RF

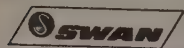
stage, 2 IF stages and separate bandpass capacitor. Also has variable BFO; automatic noise limiter; 3-position tone control; 5" PM speaker; AVC; headphone jack. 7 tubes, rectifier. $8\frac{1}{2} \times 18\frac{3}{4} \times 10\frac{3}{4}$ ". For 105 v., 50-60 cycle AC. 37 lbs. 23 SU 236-3D. \$7 Monthly.....139.95



S-120
\$69.95
\$5 Monthly

HALLICRAFTERS S-120 RECEIVER

Tunes 550 kc to 30 mc AM-Shortwave in 4 bands. And you get a SWL Guide and Record. Has variable slide-rule dial, electrical bandspread, ferrite, SW whip and wire antenna. Built-in speaker, headphone jack. $5\frac{7}{8} \times 13\frac{1}{2} \times 8\frac{3}{4}$ ". 4 tubes, rectifier. For 105-125 v. AC or DC. See inside back cover for big package savings on the S-120. 13 lbs. 23 SU 237-3D. \$5 Monthly.....69.95



New Single Sideband Transceivers



AC POWER SUPPLY

For home station use, has a built-in 5x7" speaker plus a headphone jack.



NEW SWAN SW-240 3-BAND SSB TRANSCEIVER

For fixed or mobile use. Push-to-talk unit covers 3780-4020 kc (75 meters) 7050-7320 kc (40 meters), and 14. (13-14.) 37 mc (20 meters). Input is 240 watts PEP, 200 watts CW, 60 watts AM to 6DQ5 final. Provides upper sideband emission on 20, lower sideband on 40 and 75. Crystal-lattice generator gives 50 db carrier suppression, 40 db unwanted sideband suppression. Stable VFO is temperature and voltage compensated. Pi-net output matches 20-200 ohms. Receiver section has better than 1 μ v sensitivity for 10 db S/N; adjustable AGC, separate audio and rf gain controls. 15 tubes. Size, $5\frac{1}{2} \times 13 \times 11$ ". Supplied with mobile mounting bracket, less power supplies, below. Shpg. wt., 14 lbs. 86 SU 159-D. \$16 Monthly.....320.00
86 SX 161-D. 12-VDC Supply. $10\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". 10 lbs.....115.00
86 SX 160-D. 117-VAC Supply/Speaker. $11\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{1}{2}$ ". 16 lbs.....95.00



POWER SUPPLY

Fastens to Rear of Transceiver, Removable for Mobile Use.



GONSET "SIDEWINDER" 2-METER TRANSCEIVER

Transistorized unit covers 144-148 mc in 4 1-mc bands. Input is 10 watts PEP on SSB, 6 watts AM, 20 watts CW. Uses transistors throughout except for transmitter mixer, driver, and final amplifier stage. Crystal SSB generator provides 50 db carrier suppression, 30 db unwanted sideband suppression. Dual conversion receiver section has $\frac{1}{2}$ μ v or better sensitivity for 10 db S/N ratio, crystal filter and RF gain controls. Highly stabilized VFO has vernier dial with 10 kc divisions. Panel meter indicates relative output and "SS" signal. Also has VOX, pi-net output. Uses 21 transistors, 6 diodes, and 15 tubes. Size, $4\frac{3}{4} \times 8\frac{3}{4} \times 7$ ". Less power supply, see universal power supply below. Shpg. wt., 9 lbs. 86 SX 382-D. \$17 Monthly.....349.95
86 SX 383-D. Universal Transistorized Power Supply. For 110-125 v. AC, or 12 v. DC. $8\frac{3}{4} \times 4\frac{3}{4} \times 5\frac{1}{2}$ ". Wt., 13 lbs.....149.95

National Communications Equipment



Mosley TA-33JR
3-Element Beam

Station
Package
\$469⁹⁵
\$20 monthly

NCX-3 SSB/AM/CW
(less Power Supply)



Save \$22.96

**ON STATION PACKAGE FEATURING
THE NATIONAL NCX-3 TRANSCIVER**

is: National NCX-3 Tri-Band SSB/
W Transceiver (less power supply);
Voice 664 Cardoid Mike; Mosley
R 3-Element Beam. NCX-3 has VOX,
talk, grid-block keying, S-meter, etc.
are 200 watts PEP on SSB, 180 watts
100 watts on AM. VFO drift is below
after warmup. Receiver selectivity
c at 6 db. Has SSB/CW product de-

lector and AM diode detector. Less power
supply/speaker, below. 6x13 $\frac{1}{2}$ x11 $\frac{1}{2}$ ". 55
lbs. Shipped express only.
23 SZ 226-3D. \$20 Monthly..... **469.95**
23 SU 227-2D. NCX-3 With EV Mike Alone.
Save \$9.98! 27 lbs. \$19 Monthly..... **409.95**
86 SX 041. NCX-3 Alone. 25 lbs..... **369.95**
86 SX 042. AC Supply/Sprk. 25 lbs..... **110.00**
86 SX 055. 12 VDC Supply. 12 lbs..... **119.95**

DELUXE FEATURES

- Works 80, 40 and 20-Meter Bands
- Big 200-Watt PEP Sideband Input
- Filter-Type SSB Generator Gives 50 db Carrier Suppression
- Receiver has 1 μ v Sensitivity
- Separate SSB/CW and AM De-meters
- Smooth 45:1 Planetary VFO Dial

National Communications Deluxe Receivers



NC-121 LOW-COST SHORTWAVE RECEIVER

Dual-conversion SSB/AM/CW re-
ceiver. Covers 10 through 80-meter Ham
plus 11 meters. 5 selectivity positions
down to 400 cps, to 8 kc at 6 db
instant USB/LSB selection; Q-multi-
plier with 60 db tuneable notch; separate
SSB product detector; AGC; etc. Size,
9 $\frac{1}{2}$ x15". For 110-120 v., 50-60 cycle
lbs. Shipped express..... **449.00**

239-D. XCU-27 Crystal Calibrator. For

1 lb..... **26.60**

217. NTS-2 Speaker. For above. 11 $\frac{1}{2}$ x

12 lbs..... **21.95**



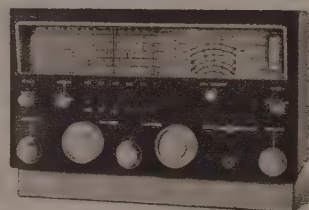
NC-270 HAM BAND RECEIVER

Dual-conversion SSB/CW/AM receiver for
80 through 6 meters. Has 100-kc crystal cali-
brator; instant sideband selection; 5 degrees
of variable selectivity from 600 cps to 50 kc;
over 1 μ v sensitivity for 10 db S/N ratio; prod-
uct detector CW/SSB; ANL; S-meter; bi-
filar T-notch and depth controls; "Flip Fool";
etc. 8 $\frac{3}{4}$ x15 $\frac{1}{2}$ x9". Less speaker, below. For
operation from 105-125 v., 50-60 cycle AC.
Shpg. wt., 30 lbs.

90 SU 002. \$14 Monthly..... **279.95**

90 SX 003. NTS-3 Matching Speaker. For

NC-270, NC-140 and NC-190. 5 lbs..... **19.95**



NC-190 SHORTWAVE RECEIVER

Dual-conversion, tunes 540 kc to 30 mc.
Calibrated bandspread for 80-10 meter Ham
bands, plus 49, 31, 25, 19, 16 and 13-meter
shortwave bands. Offers: variable IF selectivity
(600 cps CW, 3 kc SSB, 5 kc AM);
sideband selection, 1 μ v sensitivity for 10 db
S/N; 2215 kc and 230 kc IFs; 60-to-1 vernier;
SSB/CW AGC; ANL; S-meter; "Flip-Foot."
8 $\frac{3}{4}$ x15 $\frac{1}{2}$ x9". Less speaker, at left, crystal
calibrator, below. For operation from 105-
125 v., AC. 30 lbs.

90 SU 001. \$11 Monthly..... **219.95**

86 S 429-D. XCU-27. Crystal Calibrator. For

NC-155 and NC-140. 1 lb..... **26.60**

NATIONAL RECEIVERS FOR SHORTWAVE LISTENERS AND HAMS

NC 121 LOW-COST SHORTWAVE RECEIVER

For V/Ls and beginning Hams. And you get a FREE antenna kit.
Q-multiplier; variable IF selectivity (7 kc-500 cps). Product
detector AGC. S-meter. Q-multiplier operate on all modes. Also
and audio gain controls, tuner output, BFO, bandspread dial,
8" speaker, phone jack. Aluminum panel. 7 $\frac{1}{2}$ x13 $\frac{1}{2}$ x8 $\frac{3}{4}$ ". For
5 v., 50-60 cycle AC. 28 lbs.

238-2D. \$7 Monthly..... **129.95**

239-2D. NC-121W. Above, in walnut cabinet. 30 lbs. **149.95**

NC 140 GENERAL-COVERAGE RECEIVER

540 kc-31 mc (5 bands). Bandspread for 80-10 meter Ham
plus 5 SW bands. Dual conversion above 4 mc; 1 μ v sensi-
tivity; Q-multiplier, product detector/BFO, etc. 8 $\frac{3}{4}$ x15 $\frac{1}{2}$ x9"
with FREE antenna kit. Less NTS-3 speaker, XCU-27 calibrator.
For 110-125 v. AC. Wt., 30 lbs.

240-2D. \$10 Monthly..... **189.95**



NC 121



**FREE
BONUS**



Buy either of these fine
receivers and get a free
shortwave antenna kit. In-
cludes antenna wire, lead-
in, plus insulators.

NC 140



Viking

Choose Your Amateur Transmitter



FILTER-TYPE SSB ADAPTER

MODEL 240-305-2. Adapts AM/CW rigs to SSB coverage of 80-10 meter bands. Ideal for use with Valiant or Valiant II (below)—provides 275 w. PEP input. Consists of table-top RF unit, 11 1/2x8x14", and power supply, 6 1/2x3 1/2x7 1/2", with cables. Offers VOX/anti-trip, 45-50 db sideband/carrier suppression, etc. Output, 3 w. For 115 v. AC. 31 lbs. 90 SU 502D. Wired. \$17 Monthly. 369.50

SAVE ON "VALIANT II" TRANSMITTER PACKAGES

Here's exciting news for the Ham bargain hunter! Heart of the transmitting package is the famed Johnson Viking Valiant II 6-band CW and AM phone transmitter for the 10 through 160-meter bands.

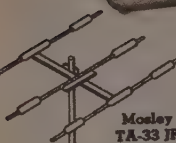
Features stable, built-in VFO, low-level audio clipping, TVI suppression, time-sequence keying, self-contained power supply for 115 v. AC, 3—6146s in final, pi-net output, and many other built-in extras. Delivers full 275 w. input CW (or SSB with auxiliary SSB exciter or adapter, above) and 200 w. AM. Mosley TA-33 JR Trap-Master 3-element beam covers 10/15/20 meters with gain to 8 db and 25 db F/B ratio; has 12'

boom, 14' 9" turning radius. Electro-V 664 "Variable D" dynamic mike has cardioid pattern, high front-to-back discrimination response to 15,000 cps, —55 db output off switch, 18' cable; 7 3/4x1 1/2" dia. Va. II, 11 1/2x21x14" is factory wired. Wt., 113 lbs. \$25 Monthly. Save \$28.01! 23 SU 250-3. Complete Pkg. 589.50

23 SU 251-3. Above with Valiant II in form. Save \$23.01! \$20 Monthly. 429.50

90 SZ 500D. Valiant II Alone—Wired lbs. Express. \$21 Monthly. 489.50

90 SZ 501D. Valiant II Alone—Kit Form price. \$18 Monthly. 379.50



**Mosley
TA-33 JR**

Pkg. With
Valiant II Wired

\$589⁹⁵

Save **'28.01**



**E-V 664
Mike**

Pkg. With
Valiant II Kit

\$474⁹⁵

Save **'23.01**



"INVADER" TRANSMITTER/EXCITER

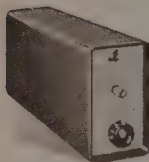
MODEL 240-302-2. Popular unit for SSB, CW and AM work on the 80 through 10-meter bands. Delivers 200 watts SSB/CW input and 90 watts AM. High-frequency bandpass crystal filter offers more than 60 db sideband suppression, 55 db carrier suppression. Instant bandswitching. Also has: stable VFO, RF-controlled audio AGC and limiter-type ALC, mixer-type shaped keying, wide-range pi-net, TVI suppression. Internal relay controls antenna relay,

receiver, built-in VOX, push-to-talk, trip. 11 1/2x21x17". For 115 v. AC. 70 lbs. \$26 Monthly. 619.50

90 SZ 513D. Factory Wired. 619.50

240-303-2 "HI-POWER CONVERSION UNIT." Converts Invader above to PEP input desk-top transmitter. power supply; size, 11 1/2x19 1/2x14 1/2". 116 lbs. \$26 Monthly. 619.50

90 SZ 514D. Factory Wired. 619.50



"6N2" VHF RECEIVING CONVERTERS

\$59⁹⁵ kit form
\$89⁹⁵ factory wired

Compact VHF converters for efficient 6 and 2-meter reception with any receiver. Provide instant front-panel bandswitching from low-frequency receiver operation to either 6 or 2 meters. Crystal-controlled broadband type—simply tune receiver to cover VHF bands. All tune full bands except *50-52 and 144-146 mc only. Uses 6ES8 dual-triode RF amplifier in neutralized cascode circuit. Excellent stability and image/IF rejection. No overloading—minimum cross-modulation. 5x2 3/4x12". For 110-120 v., 50-60 cycle AC. 6 lbs. \$5 Monthly.

MODELS IN KIT FORM

Stock No.	Model No.	For Receivers Covering:	EACH
90 S 515D	250-43-1	26 to 30 Mc.	59.95
90 S 516D	250-43-2*	28 to 30 Mc.	
90 S 517D	250-43-3	14 to 18 Mc.	

FACTORY-WIRED MODELS

90 S 518D	250-43-12	26 to 30 Mc.	89.95
90 S 519D	250-43-22*	28 to 30 Mc.	
90 S 520D	250-43-32	14 to 18 Mc.	



JOHNSON STATION ACCESSORIES

A 250-20 LOW-PASS FILTER. 4-section TVI filter. Handles over 1 kw. 75-db attenuation above 54 mc. 52 ohms. SO-239s. 9x2 1/2x6". 4 lbs. 90 S 525D. 14.95

B 250-37 DIRECTIONAL COUPLER. Monitors SWR/relative power. 52 ohms. 1 kw. 1.7-150 mc. Use with multimeter, or Indicator, below. SO-239s. 6 1/2x2 1/2x6". 3 lbs. 90 S 521D. 11.75

C 250-38 INDICATOR. 0-100 μ a meter reads SWR and relative power. Size, 4 3/8x4 1/4". Wt., 5 lbs. 90 S 522D. \$5 Monthly. 25.00

D 250-42-1 ATTENUATOR. T-pad gives 6-db attenuation. Max. diss., 45 w. (120 w. with 75-w. bulb); max. input, 60 w. 350 Ω . SO-239s. 3 1/2x4 1/2x3 1/2". 3 lbs. 90 S 523D. \$5 Monthly. 21.50
90 S 524D. 250-42-3. As above, but handles 70 w. 50 ohms. 3 lbs. 21.50

E MODEL 250-23-3 275-WATT "MATCH BOX." Matches 25-1500 ohm balance and 25-3000 ohm unbalanced antennas. 80-10 meters. Has directional coupler indicator. Continuously monitors incident or reflected (SWR) power. 52-ohm input. Handles to 750 w. PEP. Transmit-receive relay. 7x9 1/2x10 1/2". 15 lbs. 90 SX 527D. \$5 Monthly. 94.50

250-30-3. Above, for 1 kw CW/AM, 31 PEP input. Takes balanced lines 50-150 ohms, unbalanced 50-2000 ohms. 27 lbs. 90 SU 528D. \$9 Monthly. 154.50
90 SX 529D. 250-23. As 250-23-3, less coupler, indicator. 64.50

F 250-28 CRYSTAL CALIBRATOR. Produces 100-kc check points to 55 μ V. Trimmer zero-beats WWV. With 6BH6 tube crystal. 3 3/8x2 1/2x1 1/2". Requires 6.3 v. at amp, 150-300 v. at 2 ma. 2 lbs. 90 S 526D. Factory Wired. 189.50

From the Famous E. F. Johnson Viking Line



Adventurer



Challenger



6N2 VHF Transmitter



"RANGER II" TRANSMITTER

ADVENTURER™ TRANSMITTER

MODEL 240-181-1. This low-cost CW transmitter runs 50 watts input to an 807 final output on the 80 through 10-meter bands. To assemble and operate, it has single-band switching, TVI shielding and wide-range pi-network output, plate metering and simultaneous key-Crystal or external VFO control. Less than 1 lb. 8 1/2 x 10 3/4 x 7 3/8". Power supply 110-120 v., 50-60 cycle AC. Wt., 21 lbs. \$10 Monthly. Kit Form..... **69.95**

ECH AMPLIFIER/MODULATOR

MODEL 250-40. High-gain unit converts "Adventurer" or similar CW rigs to AM phone operation. Screen mod. Plugs in. 4 3/4 x 4 3/4 x 4". Wt., 1 lb. 90 S 506D. Kit Form..... **12.25**

"6N2" VFO FOR 6 AND 2 METERS

MODEL 240-133-2. Replaces 8-9 mc crystals multiplying 6 and 2-meter transmitters. Output, 7.995-9.010 mc. Requires 250-300 v. at 10 ma, 6.3 v. at 0.3 amps. Stable—

"CHALLENGER" TRANSMITTER

MODEL 240-182-2. Features CW and AM operation on 6 bands. Inputs: 70 w. AM on 80-6 meters, 120 w. CW on 80-10, 85 w. CW on 6. Has 6DQ6A's final, pi-network, etc. Takes crystal or VFO. 15 1/2 x 13 1/2 x 12 1/2". For 115 v. AC. 33 lbs. \$9 Monthly. 90 SU 503D. Factory Wired..... **169.75** 90 SU 504D. Kit Form. \$7 Monthly..... **124.75**

"6N2" VHF TRANSMITTER

MODEL 240-201-2. Bandswitched 6 and 2-meter transmitter. Inputs, 150 w. CW; 100 w. AM. Uses power supply/mod. of your low-frequency transmitter. Requires 6.3 v. at 3.5 a., 300 v. DC at 70 ma, 300-750 v. DC at 200 ma, 30 w. audio. Crystal or external VFO control. For 8-mc input. 8 3/4 x 13 1/2 x 8 1/2". Wt., 16 lbs. \$10 Monthly. 90 SU 507-2D. Factory Wired..... **194.50** 90 SU 508D. Kit Form. \$8 Monthly..... **149.50**

has VR tube. 5x4x4 1/2". 4 lbs. 90 S 509D. Factory Wired..... **54.95**

90 S 510D. Kit Form. \$5 Monthly..... **34.95**

\$359.50

\$17 monthly

AM and CW on 7 Ham Bands

MODEL 240-162-12. Latest model of this extremely popular AM/CW instant-band-switching transmitter covers the 160 through 6-meter Ham bands with crystals or built-in VFO. Also serves as RF/audio exciter for high-power equipment. Pi-network final runs 75 watts input on CW and 65 watts on AM phone. Has time-sequence (grid block) keying for clean break-in.

Temperature-compensated VFO calibrated for each band. High-gain 100% modulation; 250-3000 cps response. Full meter switching. Takes high-impedance mike; TVI suppressed. Size, 9 5/8 x 15 1/2 x 14". Less crystal, mike and key. For 110-120 v., 50-60 cycle AC. Wt., 56 lbs. Shipped express only. \$17 Monthly.

90 SZ 124D. Factory Wired..... **359.50**

90 SZ 125D. Kit Form. \$13 Monthly..... **249.50**

Multi-Elmac 6-Band Station—Save \$44.05!

V and AM Phone 80-6 Meters



Complete **\$429.95**

\$19 monthly

A \$474.00 Value!



AF-68

M-1070



Use it on 115 VAC Line Both Portable and at Home...

and on 6 & 12 VDC Tool

at \$44.05 savings on this complete, factory-wired station for fixed, mobile and portable operation—compact, perfectly matched units for CW and AM phone on 80 through 6 meters! Famous PMR-8 dual element receiver covers 6 Ham bands plus BC band, offering auto-controlled 2nd converter, 1/2-μv sensitivity, calibrated BFO selectable USB/LSB, delayed AVC, ANL, tuned RF stage, and selectivity of 6 db down at 3 kc. Efficient AF-68 "Trans-citer" 6-meter transmitter runs 60 watts input to 6146 final on CW and AM—has temperature-compensated VFO, single-control band-switching, 5-circuit panel meter, and universal pi-network output; takes high or low-impedance mike. Rugged, fully fused 700 power supply easily powers both PMR-8 and AF-68; has full-wave silicon rectifiers, hash suppression, DC filtering, built-in relay and transmit/receive relays.

Sizes: PMR-8, 4 1/2 x 9 1/2 x 7"; AF-68, 6 1/2 x 13 1/2 x 7"; M-1070, 6 x 8 x 5". For operation from 6 or 12 volts DC and 110-120 volts, 60 cycle AC. Less speaker, mike, key and power cables. Shpg. wt., 43 lbs. Shipped express only. A regular \$474.00 value!

23 SZ 022-3D. Complete Package. \$19 Monthly..... **429.95**

90 S 662D. PMR-8 Only. 13 lbs. \$10 Monthly..... **189.50**

90 SU 663D. AF-68 Only. Wt., 22 lbs. \$11 Monthly..... **205.00**

90 S 204D. M-1070 Supply Wired. 17 lbs. \$5 Monthly..... **79.50**

90 S 249D. M-1071 Supply. Above, kit form. \$5 Monthly..... **59.50**

90 S 252. WH-6 Power Cable. 9-ft. long. Wt., 2 lbs..... **16.00**

90 S 255. WH-20. Above, 23-ft. long..... **24.00**

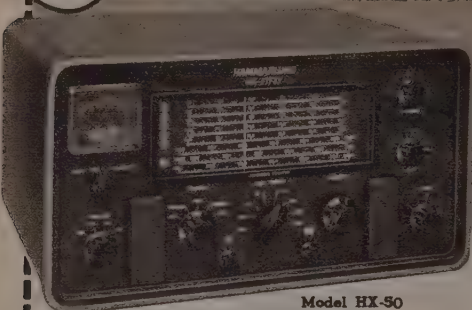
See This Catalog's Knight-Kit Section for More Ham Values

ALLIED 223



HAMMARLUND Communications Equipment

Save \$22.51 ON THIS DELUXE AMATEUR PACKAGE



Model HX-50 Transmitter



Deluxe E-V Mike

Complete Package

\$549.95



Mosley Beam

MODEL HX-50 TRANSMITTER PACKAGE

- 130-Watts PEP Input on SSB
- Bandswitching 80-10 Meters
- 3-Element Pi-Network Output
- Extremely Stable VFO
- Filter-Type SSB Generator
- Carrier/Sideband 50 db Down

Big \$19.48 savings on this complete Amateur transmitting package. Highlights the famous Hammarlund HX-50 Filter-Type AM-CW-SSB Transmitter for the 10 through 80-meter Ham bands. Rated at 130 watts PEP and CW input; output is 50-65 watts with 90-watt DC input on SSB and CW. AM output is 25% of CW output. Internal VFO tunes 5950-6550 kc, has provision for crystal or external VFO operation. Less than 250 cps VFO-drift after warm-up. All other oscillator stages are crystal controlled. Carrier and sideband suppression: 50 db. Bandwidth, 2.7 kc at 6 db down. Low-level bandpass couplers. Slide-rule VFO dial, antenna

changeover, VOX, anti-trip, etc. $9\frac{1}{2} \times 17 \times 9"$. For 105-125 v., 50-60 cycle AC. Electro-Voice 664 Mike offers highly directional cardioid pickup pattern plus excellent sensitivity. Mosley TA-33 JR 3-Element 10/15/20-Meter Beam gives up to 8 db gain and 20 db F/B ratio, needs only 15'6" turning radius. Shpg. wt., 77 lbs. Shipped express only.

23 SU 279-3. Complete Package. \$23 Monthly..... **\$49.95**
23 SU 280-2. HX-50 with E-V 664 Mike. Save \$9.53. Less antenna. 47 lbs. \$21 Monthly..... **\$89.95**
90 SU 539-D. HX-50 Transmitter. 45 lbs. \$20 Monthly..... **\$49.50**

Bonus Offer on Hammarlund Communications Receivers



FREE "CALL-BOOK" WORLD MAP with any of these receivers. Shows Amateur prefixes, time zones, etc. 29x42".

WORLD PREFIX MAP FREE WITH RECEIVER



HQ-180AC RECEIVER/MAP

Precision general-coverage SSB, CW and AM receiver. Covers 540 kc to 300 mc in 5 ranges with 10-80 meter Ham bandspread. Triple conversion, 7.85-30 mc; dual conversion below. Sensitivity: $1\frac{1}{2}$ μ V AM, $\frac{1}{2}$ μ V CW for 10 db S/N ratio. Offers: crystal filter; crystal controlled 1st converter; 7 selectivity positions; 60 db slot filter; selectable sideband and AVC action; product/diode detector; 100 kc calibrator; "Auto-Response"; ANL; clock-timer; 16 tubes, rectifier, VR. $10\frac{1}{2} \times 19 \times 13"$. Less speaker. 105-125 v. AC. 47 lbs.

90 SU 554-2D. \$20 Monthly..... **\$49.00**

90 SU 555-2D. HQ-180A. Above, less clock-timer. \$19 Monthly..... **\$39.00**

90 SU 573-2D. HQ-180XE. Provision for 11 fixed-frequency crystals, 6 interchangeable from front. For 115-230 v. AC. Shpg. wt., 47 lbs. \$21 Monthly..... **\$49.00**

90 SX 656. S-200 Speaker. For HQ-145, HQ-170 and HQ-180 series receivers. $11 \times 12 \times 9"$. 10 lbs..... **\$19.95**

HQ-170AC RECEIVER/MAP

Renowned deluxe Ham-band receiver offers excellent mechanical and electrical stability. Covers the 160 through 6 meter Ham bands. Uses triple conversion on 40 through 6, dual conversion on 160 and 80 meters. Offers provision for 6-meter preselector, and 144-148 mc calibrations for any 2-meter converter having 50-54 mc output. Features 7 selectivity positions, 60 db slot filter, product and diode detectors, selectable sideband, selectable AVC, 100-kc crystal calibrator, "Auto-Response"; S-meter, clock-timer. Size, $10\frac{1}{2} \times 19 \times 13"$. Less speaker, below left. For 105-125 v., 50-60 cycle AC. Shpg. wt., 47 lbs.

90 SU 543-2D. \$18 Monthly..... **\$379.00**

90 SU 548-2D. HQ-170A. As above less clock-timer. \$17 Monthly..... **\$369.00**

90 S 549. Accessory Noise Silencer. For Series HQ-170 and HQ-180 Receivers. Shpg. wt., 2 lbs. \$5 Monthly..... **\$3.50**

HQ-145XC RECEIVER/MAP

For the Amateur who wants fine general coverage and Ham-band reception, and for the shortwave listener who demands top performance. Sensitive superhet circuit covers 540 to 30 mc in 4 bands, with dual conversion from 10 to 30 mc. Calibrates electrical bandspread for 80-10 meter Ham bands with CB channel markings and 0-10 logging scale. 6-position crystal filter; 60-db slot filter. Sensitivity, 1.75 μ V AM, 6 μ V CW for 10 db S/N. Provision for crystal controlled reception on 1 frequency (5 meter, BFO, AVC, clock-timer. $10\frac{1}{2} \times 19 \times 13"$. Less speaker. For 105-125 v., 50-60 cycle AC. 44 lbs.

90 SU 550-2D. \$15 Monthly..... **\$289.00**

90 SU 551-2D. HQ-145X. Above, less clock-timer. \$14 Monthly..... **\$279.00**

90 S 552. XC-100 Crystal Calibrator. For above. Plugs in, provides 100-kc markers. Shpg. wt., 12 oz..... **\$15.95**

World Famous for Quality Since 1910



\$25900

\$13 monthly

HQ-110AC ...
Quality SSB/CW
and AM Reception
on the Ham Bands
160 to 6 Meters



\$19900

\$10 monthly

HQ-100AC ...
Independently
Controlled,
Continuously
Variable BFO,
Q Multiplier

HQ-110AC 7-BAND RECEIVER

conversion Ham-band SSB, CW and AM receiver offers full rated coverage of 160 through 6-meter bands. Provision for preselector, 2-meter scale for any 144-148 mc converter with mc output. Also: "Auto-Response," Q-multiplier, crystal calibrator, SSB/CW detector; ANL; clock-timer, BFO, S-meter. Dual version 6-40 meters. Sensitivity, 1½ µv for 10 db S/N. 10 tubes, rectifier. 9 7/16x16 1/4x9 1/8". Less speaker. For 110-125 v., 50-60 AC. Shpg. wt., 32 lbs.

J 657-D. \$13 Monthly. 259.00

J 658-D. HQ-110A. Above, less clock timer. \$13 Monthly. 249.00

J 659. S-100 Speaker. For HQ-110 and HQ-100. 10 lbs. 14.95

HQ-100AC GENERAL COVERAGE RECEIVER

Moderately-priced general-coverage unit tunes 540 kc to 30 mc in 4 ranges with outstanding sensitivity, selectivity and stability for its class. Calibrated bandspread for 80 through 10-meter Ham bands, CB channel markings, logging scale. Also: "Auto-Response," BFO; Q-multiplier; variable selectivity; S-meter; ANL; AVC; clock-timer. Uses 8 tubes, rectifier and VR. 9 7/16x16 1/4x9 1/8". Less speaker, left. For 105-125 v. AC. Shpg. wt., 32 lbs.

90 SU 660. \$10 Monthly. 199.00

90 SU 661. Above, less clock-timer. \$10 Monthly. 189.00

90 S 622. XC-455 Crystal-Controlled BFO. For HQ-100AC and HQ-100A at left. Provides single-signal CW reception. 1 lb. 15.95

Selected VHF Equipment by

ZEUS AND INTERCEPTOR

Deluxe VHF Transmitter and Receiver



Zeus



Interceptor

642-METER TRANSMITTER. Deluxe 185-watt AM-CW unit highly stable, built-in VFO gives top performance. Remote lator/power supply saves space. Offers: speech clipping; B plate modulation; 7034 final; TVI-proofing; 6-meter pi-net, er link outputs. RF unit, 9x15x9"; modulator/supply, 11x17x13". 10-125 v., 50-60 cycle AC. 110 lbs.

J 023-2D. 695.00

RECEPTOR 642-METER RECEIVER. Tunes 50-54 mc (dual conversion) and 144-148 mc (triple conversion) in 4 bands. Provision for converters. Features: nuvisor RF stages; crystal filter; product detectors; S-meter. Sensitivity, better than 0.1 µv. Selectivity, c at 6 db down. 18 tubes, 2 diodes, rectifier, VR. Less speaker. 9". For 110-125 v. AC. 32 lbs.

J 023-D. \$20 Monthly. 473.00



FAMOUS "99'er" 6-METER TRANSCEIVER

\$15995

\$8 monthly

- Superhet Receiver Section
- Plate-Modulated 7558 Final
- For Fixed or Mobile Use

notch transceiver has double-conversion superhet receiver with nested circuits for best sensitivity and selectivity. Plate-screen lated 7558 final works "straight through." S-meter doubles as up meter. Also: crystal oscillator; spot switch; pi-net output; vernier tuning; ANL; TVI suppression. Uses any crystal or al VFO. 6x10x8". For 110-120 v. AC. Less mobile supply, v. Wt., 20 lbs.

J 146-D. \$8 Monthly. 159.95

263. C-D 6/12D6 Powercon. For 6/12 v. DC. 12 lbs. 28.66

Clegg for 6 and 2 Meters

SAVE \$18.93



RF Unit
Complete Package

\$39995

E-V Mike

Hy-Gain Beam

THOR VI 6-METER STATION PACKAGE

Package saves you \$18.93 off catalog prices. Features Thor VI 60-Watt AM/CW Transceiver. Offers high-level modulation; speech clipping; clean keying; stable, selective receiver. Transmitter VFO tracks receiver. Separate modulator/AC supply saves space. Also: crystal jack; pi-net loading; Nuvisor RF stage; BFO; crystal filter. RF unit, 6 1/4x12x8 1/2"; supply, 6 1/2x12x8 1/2". For 110-125 v. AC. E-V 664 Mike has cardioid pickup pattern. Hy-Gain 65-B 8-Element Beam gives 12.1 db gain. Shpg. wt., 32 lbs.

23 SU 281-3. Complete Package. \$18 Monthly. 399.95

90 SU 464-D. Transceiver/AC Supply Alone. 42 lbs. 349.95

90 SU 465-D. 12 VDC Transistor Mod./Supply. 27 lbs. 100.00

POLYTRONICS

POLY-COMM "2"

\$34950

\$17 monthly



Complete 2-meter station with ceramic mike, fixed/mobile supply and under-dash mtg. bracket. "Mini-load" VFO maintains minimum drift. Triple-conversion receiver section. Two nuvisor RF stages give 0.1 µv. sensitivity, 4-db noise figure. Stable squelch. 7 watts output. 19 tubes and 10 diodes. 5x11x10". For 110-125 v., 60 cycle AC and 12 v. DC. 23 lbs.

90 SU 683-D. \$17 Monthly. 349.50

90 SU 681-D. Poly-Comm "8". For 6-meters. 10 watts. 329.50

Guaranteed Your Satisfaction

ALLIED 225

Outstanding Values in Amateur Equipment by

NEW EICO 722K VFO

EICO



Self-contained VFO fully calibrated for 80-10 mtr. bands—approaches crystal stability. Has silicon-diode voltage doubler, spot switch, buffer-multiplier output, VR tube. 6x8 1/2 x 9". For 115 v., 60 cycle AC. 8 lbs. \$5 Monthly.

90 SX 468-D. Kit Form..... **44.95**

90 SX 469-D. Wired..... **59.95**

730K MODULATOR-DRIVER KIT

(Not illus.) Universal, high-level unit at a modest price. Ideal for use with CW kits (right)—will plate-modulate any up-to-100 watt-input transmitter. Has crystal/dynamic mike and phone patch inputs, overmodulation indicator. Less cover, below. For 110-120 v., 60 cycle AC. 21 lbs.

90 SU 291. Kit. \$5 Monthly..... **59.95**

90 SU 292. Wired. \$5 Monthly..... **89.95**

90 S 293. Cover. For above. 5 lbs..... **4.50**



**5 Bands, 90 Watts CW—
Phone with Add-On 730K**

720K CW TRANSMITTER KIT

This handsomely styled 90-watt transmitter is just the rig for seasoned veteran and newcomer alike. Covers the 80 through 10-meter bands with handy one-knob band-switching, pi-network output, break-in keying, panel meter, and 6146 final protected by 6AQ5 clamper tube. Sealed cabinet and careful bypassing and filtering provide effective TVI suppression. Works AM phone at 65-watts input when used with 730K modulator, left. Size, 6x15x9". With all instructions. Requires crystal or external VFO, above left. For 110-120 volts, 60 cycle AC. Wt., 27 lbs.

90 SU 287. Kit. \$5 Monthly..... **89.95**

90 SU 288. Wired. \$7 Monthly..... **129.95**



60 Watts Input on 5 Bands

722K CW TRANSMITTER KIT

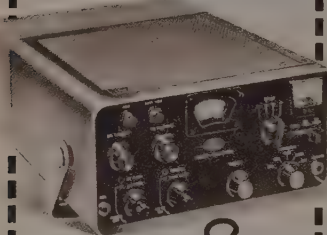
A fine low-cost 60-watt CW transmitter for the beginning Amateur—also a top-notch stand-by rig for the advanced operator. Exceptionally compact, well planned and clean-sounding "on the air." Covers the 80 through 10-meter bands with 60 w. input. Bandswitched unit employs efficient, electron-coupled Colpitts oscillator, and works AM phone at 50 watts input with optional 730K modulator (see far left). Panel meter reads final grid and plate current. TVI suppressed. Output impedance, 50-1000 ohms. Size, 6x8 1/2 x 11 1/4". With all parts and instructions. Requires crystal or VFO (far left). For 115 volts, 60 cycle AC. 16 lbs.

90 SX 289. Kit. \$5 Monthly..... **59.95**

90 SX 290. Wired. \$5 Monthly..... **89.95**

ALLIED'S OWN *Knight-Kit* AMATEUR GEAR

NEW "FOUR-BANDER"
SSB TRANSCIEVER



\$495.00 200 Watts PEP on
75, 40, 20 and 15

Precision unit for both mobile and fixed offers 200 w. PEP or 180 w. CW input on 4 bands. Has Collins mechanical filter, 7360 balanced modulator, 100-ko standard with adjustable cursor. Covers 3.8-4, 7.1-7.3, 14.2-14.4, 21.3-21.5 mc with crystals supplied. Rear-panel connections for phone patch, Q mult., sidetone, break-in CW, etc. 5 3/4 x 11 3/4" sq. Less power supplies, below. Wt., 11 lbs.

90 SU 470-D. \$21 Monthly. **495.00**

90 SU 534-D. AC-10 Deluxe AC Supply/Speaker. With cables. For 115 v. 20 lbs. \$7 Monthly..... **135.00**

90 SU 471-D. AC-11 Economy AC Supply. 20 lbs. \$5 Monthly..... **99.50**

90 SU 535-D. DC-10 Heavy-Duty Transistorized Mobile Supply. For 12 v. DC. 12 lbs. \$7 Monthly..... **135.00**

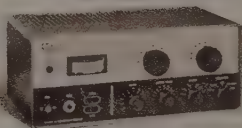


T-150A TRANSMITTER KIT

Widely hailed both by delighted owners and by two Ham journals, the 8-band T-150A brings you a clean "big signal" at maximum watts-per-dollar. Peak AM/CW inputs are 150 w., 80 through 10. Also covers 6 mtrs. Highlights include: highly stable, calibrated VFO with spotting switch and planetary drive; controlled-carrier modulation; simultaneous, 4-stage, break-in keying; voltage-doubler power supply; full TVI suppression. Details in Knight-Kit section.

83 YU 409-D. \$6 Monthly..... **119.95**

T-60 TRANSMITTER KIT



A great value in a low-powered CW and AM phone rig! Works 6 bands with 60 w. peak AM/CW input on 80 through 10, slightly less on 6. Has pi-net, controlled-carrier AM, 1-knob bandswitching, cleanest keying. Details in Knight-Kit section.

83 YX 294-D. \$5 Monthly..... **49.95**



R-100A RECEIVER KIT

Boasts all the extras that make the R-100A DX-getting favorite, plus styling to match the T-150A. Sensitivity is 1/2 to 1 1/2 μ v on 80 to 10 mtrs., with full 540-kc to 30-mc cover age. Has bandspread for the 80-10 meter bands—tunes 160, too. Built-in Q multiplier works on all modes! Has exalted BFO, delayed AVC, PC bandswitch, ANL. Details in Knight-Kit section.

83 YU 406-D. \$5 Monthly..... **99.95**

83 Y 423-D. S-Meter Kit..... **12.95**

83 Y 424-D. S-8A Speaker Kit..... **9.95**

P-2 SWR/POWER METER



Be sure you're getting maximum power into your antenna with this factory-wired P-2. Checks relative power and SWR with better than 10% accuracy, negligible insertion loss. Flexible 2-unit design. For 1.8 to 430 mc. Details in Knight-Kit section.

83 Y 446-D. Factory Assembled..... **22.95**

co, knight-kit, Sonar, and R. L. Drake

VE \$24.98 ON PACKAGE FEATURING DRAKE'S NEW

TR-3

Complete
TR-3 Package
\$589⁹⁵
\$25 monthly

Hy-Gain
TH-3-JR

E-V 664
Dynamic
Mike

For 10, 15,
20 Meters



**YOU GET THE TR-3 TRANSCEIVER
PLUS A 3-ELEMENT, 3-BAND BEAM
AND A DELUXE DYNAMIC MIKE!**

value-packed combination featuring the
compact new Drake TR-3 transceiver! This
satisfactorily made unit offers optimum SSB
performance—two 9-mc crystal filters per-
manent USB/LSB selection on all 5 bands
covered. Inputs are 300 w. PEP and 260 w.
V to 3—12J6B power amplifiers. Ranges:
4-1, 7.0-7.6, 13.9-14.5, 21.0-21.6, 28.0-
28.5-29.1, 29.1-29.7 mc.

able, linear, permeability-tuned VFO
covers 4.9 to 5.5 mc for all 7 ranges—drift is
under 100 cps after warm-up or for $\pm 10\%$
voltage changes. Also: product detector,
separate RF/AF gain controls, 2.1-kc pass-
band, adjustable pi-network, controlled-
resistance screen modulator for AM—literally
dozens of other built-in extras. Amplifier 19
amps, 1 VR and 6 diodes.

Gain's new TH-3-JR beam is a compact
version of the famed TH-3 Thunderbird—
works 10/15/20 meters with gain to 8 db.
V 664 cardioid-pattern dynamic mike has
cable. TR-3 transceiver, $5\frac{1}{2} \times 10\frac{3}{4} \times 14\frac{3}{4}$ ".

comes less power supplies (below). Wt., 48
lbs. \$25 Monthly. Save \$24.98!
23 SU 282-3D. Complete Package **\$589.95**
23 SU 283-2D. TR-3 and E-V 664 Mike. 22 lbs.
\$23 Monthly. Save \$15.03!..... \$29.95
90 SU 473-D. TR-3 Alone. 20 lbs..... \$495.00

DRAKE TR-3 ACCESSORIES

AC-3 AC POWER SUPPLY. For 110-120 v.,
50-60 cycles. $5 \times 5 \times 10\frac{1}{4}$ ". 22 lbs.
90 SU 474-D. \$5 Monthly..... \$79.95
DC-3 MOBILE SUPPLY. Transistorized. For
12 v. DC. $4\frac{1}{2} \times 4 \times 8\frac{1}{2}$ ". 10 lbs.
90 SX 475-D. \$7 Monthly..... \$129.95
RV-3 REMOTE RECEIVING VFO AND
SPEAKER. Covers 80-100 meters. 5" speaker.
 $5\frac{3}{8} \times 10\frac{3}{4} \times 11\frac{1}{8}$ ". 9 lbs.
90 SX 476-D. \$5 Monthly..... \$79.95
90 SX 477-D. MS-3 5×7 " Speaker. $5\frac{3}{8} \times$
 $10\frac{3}{4} \times 10\frac{3}{4}$ ". \$5 Monthly. 9 lbs..... \$19.95
90 SX 478-D. Mobile Mtg. Kit For Above.
Shpg. wt., 2 lbs..... \$6.95

TR-3 HIGHLIGHTS

- Upper/Lower SSB, Carrier-Shift
CW, Controlled-Carrier AM
- Covers 80 through 10 Meters in
Seven 600-kc Ranges
- 300 Watts PEP, VOX or PTT
- Full AGC on Received Modes
- Linear Permeability-Tuned VFO
- Separate Ammeter and S Meter
- Built-In 100-kc Crystal Calibrator
- Sensitivity, Better Than $1 \mu\text{v}$
- IF Selectivity, 2.1 kc at 6 db
- Chirp-Free, Grid-Block Keying
- Superb Frequency Stability



RV-3

MS-3

FAMOUS DRAKE 2-B RECEIVER WITH 2-BQ SPEAKER/Q MULTIPLIER

A \$319.90 Value—Save \$9.95!

you can own this widely acclaimed triple-conversion receiver
with its matching 2-BQ speaker/Q multiplier at \$9.95 savings! The
2-B is the most popular SSB-CW receiver available today.
Special features include selective movable passband tuner with 3
choice bandwidths, speeded up AVC for fast CW, series-diode
limiter for AM, and 120/240 volt power supply. Steep-sided
bandwidths of 0.5, 2.1 and 3.6 kc at 6 db down offer peak SSB/CW/
Amateur-band reception with complete RF gain, AVC and S-
meter action. Selectivity only 2.75 kc at 60 db down. Covers 3.5-4.1,
7.5, 13.9-14.5, 20.9-21.5 and 28.5-29.1 mc with 3 crystals supplied.

Frequency VFO and crystal-controlled 1st converter maintain
excellent stability; drift is less than 400 cps from cold start, less than
cps after warm-up. Continuous sideband selection without re-
tuning. Choice of slow or fast AVC and product or diode detector.
Compact $7 \times 12 \times 9$ ", the 2-B is for 120/240 v., 50-60 cycle AC. The
Matching Model 2-BQ, a combination Q multiplier and deluxe 6"
speaker, provides single-signal CW reception or notches out hetero-
geneous interference. Wt., 21 lbs.

SU 284-2D. \$15 Monthly. Save \$9.95.... **BOTH FOR 309.95**
SU 450D. 2-B Receiver Alone. 16 lbs. \$14 Monthly..... \$279.95
SU 172. 2-BQ Speaker/Q Multiplier Alone. 6 lbs..... \$39.95
SU 180. 2-AC Crystal Calibrator. Plugs into 2-B receiver to give
marker signal every 100-kc up to 30 mc. Controlled by switch
receiver front panel. Wt., 5 oz..... \$16.95
SU 182. 2-BS Matching 6" Speaker. 5 lbs..... \$16.95



2-B and 2-BQ



Continuously
Movable 3-Step
Selectivity



Provision
for 12 Crystal-
Controlled Bands



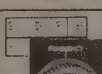
Sensitivity,
 $\frac{1}{2} \mu\text{v}$ for
10 db S/N



Triple
Conversion
Superhet
Circuit



Independently
Tuned
Preselector



Highly
Accurate Dial
Calibrations



Outfit Your Station on Our Credit Fund Plan—See Page 433

Low-Cost Code Practice Aids

**NEW from
knight-kit**

LC-1 CODE PRACTICE KIT

\$795

Scouts, Hobbyists and
Hams-to-Be—Learn Code
Fast on This Handy Unit

Two-transistor oscillator with built-in speaker and flasher light, key, battery. Wt., 3 lbs. Details in Knight-Kit section.
83 Y 432.....**7.95**

A **MICO 706 CODE PRACTICE OSCIL-LATOR.** Portable transistor unit has speaker, adjustable pitch, phone jack, choice of tone/flashing light/both. $6\frac{1}{2} \times 3\frac{3}{4} \times 2\frac{3}{4}$ ". With battery. 2 lbs.
89 S 628, Factory Wired.....**9.95**
89 S 627, Kit Form.....**8.95**

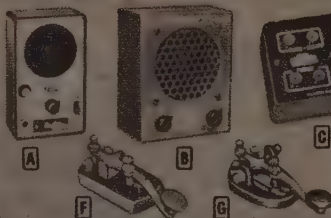
B **AMECO CPS-WT CODE PRACTICE OSCILLATOR.** Has 4" PM speaker and click filter. Doubles as keying monitor. $6\frac{1}{2} \times 5 \times 3\frac{1}{2}$ ". For 115v., AC/DC. 4 lbs.
89 S 722.....**14.95**



**ALLIED
CODE
COURSE**

\$449

A complete, 10-lesson course on one 12" 33 $\frac{1}{3}$ -rpm record. Lets you learn code to pass Amateur exams. Consists of 5 lessons per side—takes you up to 15 wpm. Back of jacket has code table. Includes 20-page instruction book. 1 lb.
89 S 573.....**4.49**



C **JACKSON 562-B CODE PRACTICE OSCILLATOR.** Transistor unit for use with external phones and key. Variable tone. Less battery. Wt., 2 lbs.
89 S 628.....**9.95**
55 J 005, $1\frac{1}{2}$ -V. Battery 8 oz.....**134**

D **JOHNSON 114-450 BUZZER CODE SET.** Key and buzzer on bakelite base. Requires 2— $1\frac{1}{2}$ v. batteries. 2 lbs.
89 S 910.....**4.95**

E **JOHNSON 114-400 BUZZER.** Buzzer alone (from set above). Screw adjustment varies tone. Requires 2— $1\frac{1}{2}$ v. batteries, above. Wt., 5 oz.
89 S 911.....**1.85**

F **JOHNSON 114-300 PRACTICE KEY.** Low-cost, fully adjustable key. $\frac{1}{8}$ " silver contacts. With code card. 8 oz.
89 S 904.....**2.25**

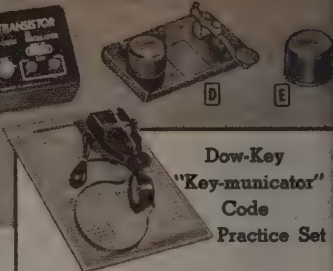
RIDER CODE COURSES

"Sight 'N' Sound" course on 10" LP records — you advance one wpm per day.

REC-08 NOVICE COURSE. (0-8 wpm.) 3 LP's, 47 cards, book. 2 lbs.
89 S 558.....**9.50**

REC-920 ADVANCED COURSE. (9-20 wpm.) 3 LP's, cards, book. 2 lbs.
89 S 564.....**8.95**

REC-020 COMPLETE COURSE. (0-20 wpm.) 6 LP's cards, book. Wt., 6 lbs.
89 S 565.....**15.95**



**Dow-Key
"Key-municator"
Code
Practice Set**

Save \$4.00 off last year's catalog price on this low-cost practice set! Two or more can be wired together (with any 2-wire cable) to form a private telegraph line. Has built-in transistor oscillator and key on 9x12" board that lists code. Complete with earphones, message pad and batteries. Wt., 2 lbs.
89 S 902.....**5.95**

G **JOHNSON 114-310 STANDARD KEY.** "Cushion contact" design offers smooth action. Mechanical parts are nickel-plated. $\frac{1}{8}$ " silver contacts. Adjustable tension, spacing, bearings. Die-cast base has black wrinkle finish. Wt., 2 lbs.
89 S 903.....**3.25**

AMECO CODE COURSES

Junior: five 45-rpm records or one 33 $\frac{1}{3}$ LP; 0 to 7 $\frac{1}{2}$ wpm. Advanced: six 45-rpm records or one 33 $\frac{1}{3}$ LP; 8 $\frac{1}{2}$ to 18 wpm. Senior: eleven 45-rpm records or two 33 $\frac{1}{3}$ LP's; 0 to 18 wpm. All have 28 p. manual.

Stock No.	Course	Speed	Lbs.	EACH
89 S 591	Junior	45	2	5.95
89 S 592	Junior	33 $\frac{1}{3}$	1	4.95
89 S 594	advanced	45	2	4.95
89 S 596	advanced	33 $\frac{1}{3}$	1	4.95
89 S 616	senior	45	4	10.50
89 S 617	senior	33 $\frac{1}{3}$	2	9.50

ANTENNA SWITCHING DEVICES

P&H TRANSCEIVER ANTENNA-TRANSFER UNIT

MODEL AR-1. Transfers antenna to transceiver on receive and provides switching to connect exciter to amplifier on transmit. Exciter also operatable straight through to antenna. 6 possible interconnections. For 3-30 mc. Rated 1500 w. $3 \times 4 \times 4$ ". Requires 6.3 v. AC @ 675 ma. Wt., 3 lbs.
90 S 437, \$5 Monthly.....**32.95**

Use Your Transceiver
As an Exciter for Any
Linear Amplifier

H **ADVANCE CB/1C2C/115VA COAXIAL RELAY.** For 52 ohms. Handles up to 800 watts. SPDT internal contacts connected to 83-IR. Also auxiliary DPDT 2-amp contacts. $4\frac{1}{16} \times 3\frac{3}{8} \times 2\frac{1}{2}$ ". For 115 v., 50-60 cycle AC. Wt., 11 oz.
76 P 254.....**13.25**

J **JOHNSON 250-39 TR SWITCH.** Switches antenna between receiver and transmitter. Rated at 4000 watts. Requires no tuning. Coax fittings. $4\frac{1}{16} \times 4\frac{3}{8} \times 5\frac{1}{16}$ ". For 110-120 volts, 50-60 cycle AC. Wt., 5 lbs.
89 S 305, \$5 Monthly.....**29.95**

K **DOW-KEY DKC-TRP SELF-POWERED TR SWITCH.** Coaxial type for electronic antenna switching. For 1.8-30 mc. Rated at 1 kw. $4\frac{1}{2} \times 3 \times 2\frac{1}{8}$ ". For 110-120 v., AC. Wt., 2 lbs.
89 S 308, \$5 Monthly.....**27.75**

DOW-KEY COAXIAL FITTINGS (Not illus.) DKF-2 is double male. DK-6-P is panel-mtg. female type. Av. wt., 4 oz.
75 P 946, DKF-2.....**1.25** 89 S 309, DK-6-P.....**704**



HALLCRAFTERS S-METER KIT

Easy-to-install, panel-mtg. kit for RF or IF stage of any receiver with AVC.

Two-scale meter, $3\frac{1}{2} \times 2\frac{3}{4}$ ", is calibrated 12.00
mv and S units. 1 lb.
89 S 473.....**12.00**

B&W NETWORKS AND CHOKES

850A PI-NETWORK INDUCTOR. For single or parallel tubes on 80-10 mhz. Rated at 1 kw. Max. VDC: CW-SSB, 4000; AM, 2500 v. $10 \times 4\frac{1}{2} \times 7\frac{1}{2}$ ". Wt., 8 lbs.
89 S 322, \$5 Monthly.....**35.00**

89 S 331, Model 851. Above rated 250 v. AM; 500 v. CW-SSB. Max. VDC: CW-SSB, 2000; AM, 1250. $7 \times 3 \times 3\frac{1}{2}$ ". 4 lbs.....**16.50**

350-2Q4 AUDIO PHASE-SHIFT NETWORK. Splits signals from 300-3000 cps into 2 equal components 90° out of phase. 1 lb.
89 S 660.....**4.95**

800 RF PLATE CHOKE. For 80-10. Max., 2500 VDC @ 500 ma. $6 \times 3\frac{1}{2}$ ". 2 lbs.
89 S 950.....**3.75**

89 S 995, Model FC-30A Filament Choke. For grounded-grid amplifiers. 30 amps. 2x $2\frac{1}{2} \times 5$ ". Wt., 3 lbs.....**10.45**

89 S 996, Model FC-15A. Above, rated 15 amps. $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$ ". Wt., 3 lbs.....**8.65**

Amateur Station Accessories



AMECO

NEW

CMA
CONVERTER

64⁹⁵ Transistorized, 12-v. crystal-controlled unit for the 160 to 2-meter Ham bands

ures 1 μ v sensitivity, tuned RF a, 1.7-54 and 108-174 mc cover-
Feed output to BCB car radio.
66 $\frac{3}{4}$ %. Requires 12 v. DC for B +
crystals. 6 lbs.

330-D. \$5 Monthly. **64.95**

S 331. Crystals. For above. Spec-
and desired. 2 oz. **EA. 3.50**

MODEL PV-90 6-METER NUVISTOR PRE-
AMP. Has 6CW4. When used with present
converter or receiver, can improve sensi-
tivity and noise figure considerably. Over
20 db gain. 12 $\frac{1}{2}$ x2x3 $\frac{1}{4}$ ". Requires 100-150
volts @ 10 ma and 6.3 volts @ 130 ma.
Shpg. wt., 1 lb.
90 S 692. **13.95**

MODEL PV-144 2-METER NUVISTOR PRE-
AMP. Above for 2 meters. 1 lb.
90 S 693. **13.95**

CN-90W 6-METER CONVERTER. Uses 3
RCA Nuvistors for low noise and high gain.
2x2 $\frac{1}{2}$ x6 $\frac{3}{4}$ ". Requires 100-150 v. @ 30 ma
and 6.3 v. @ 1 amp, or PS-1W supply, right.
Wt., 2 lbs. \$5 Monthly.

90 S 686-D. 14-18 mc output. **49.95**
90 S 687-D. 30.5-34.5 mc output. **49.95**

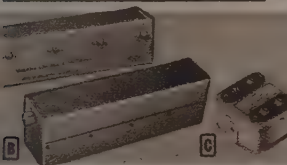
CN-144W 2-METER CONVERTER. Above
for 2 meters. 2 lbs. \$5 Monthly.

90 S 688-D. 14-18 mc output. **49.95**
90 S 689-D. 30.5-34.5 mc output. **49.95**



VHF CONVERTERS
& PREAMPLIFIERS

MODEL PS-1W POWER SUPPLY. Matching,
fully factory-wired power supply for Ameco
Model CN-50W and CN-144W VHF con-
verters listed in column at left. Compact unit
plugs directly into converters to supply all
required voltages. Size, 2 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$ ". For
operation from 105-120 volts, 60 cycle AC.
Shpg. wt., 4 lbs.
90 S 695. **11.50**



BUD LF-601A LOW-PASS FILTER. 1 kw
rating. For 52 or 72 ohms. Cutoff, 42 mc.
atten.: 85 db above 54 mc; 93 db above
mc. 12x2 $\frac{1}{2}$ x2 $\frac{1}{4}$ ". 3 lbs.

3 457. **16.90**

BAW 425 LOW-PASS FILTER. Rated 1
kw. Two "M" end sections; 4 constant-K
ter sections. 85 db attenuation on TV
channels; 100 db on ch. 2. SO-239 fittings.
3x2". For 52-ohm lines. 6 lbs.

3 458. **17.10**

N 426. Above for 72-ohm lines.

3 459. **17.10**

DRAKE TV-300-HF HIGH-PASS FILTER.
For any TV set with 300-ohm antenna
input and 20 or 44 mc IFs. Attenuation, more
than 40 db through 52 mc—excellent for G-
meter Ham interference. Iron-core, bifilar
a. Fully shielded. Size, 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1 $\frac{1}{8}$ ".
3, 8 oz.

3 C 160. **3.97**

LOW AND HIGH-PASS TVI FILTERS



D AMECO LN-2 LOW-PASS FILTER. Single-
section type handles up to 200 v.
RF. For 52 or 72-ohm coax. Has SO-239s and
bracket. 4 $\frac{1}{2}$ x2 $\frac{3}{8}$ x1 $\frac{3}{8}$ ". 1 lb.

89 S 454. **3.75**

E DRAKE TV-300-FMT FM REJECTION
FILTER. Rejects TV interference from
FM stations on 88 to 108 mc. Reduces over-
load and "beats" between FM and TV sta-
tions. For 300-ohm VHF TV sets. Easy to
attach and adjust. 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1 $\frac{1}{8}$ ". 8 oz.

89 S 460. **2.55**

F BUD HF-600 HIGH-PASS FILTER. For
300-ohm TV sets. Rejects signals below
42 mc. 3 $\frac{1}{4}$ x2 $\frac{1}{2}$ x1 $\frac{1}{8}$ ". 6 oz.

89 S 462. **4.85**

G AMECO HP-45 HIGH-PASS FILTER.
Rejects signals below 45 mc. Attenuates
40 db 14 mc and below; 20 db, 10 meters.
300 ohms. 1 $\frac{1}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ ". 3 oz.

89 S 463. **95¢**

AMECO HPX-45 HIGH-PASS FILTER. De-
luxe 2-section model of HP-45 (below, left).
Offers 80 db attenuation at 14 mc and be-
low; 40 db at 10 meters. Negligible insertion
loss. 2 $\frac{1}{2}$ x2x1 $\frac{1}{2}$ ". 5 oz.

89 S 464. **2.25**

H DRAKE TV-1000-LP LOW-PASS FILTER.
Rated 1 kw RF through 10 meters; 200 v.
on 6 meters. Ideal for 6 meters—cutoff is 52
mc. 52 ohms. 2 lbs.

89 S 458. **16.95**

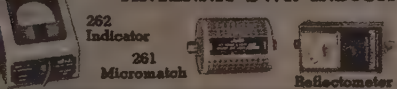
89 S 456. TV-100-LP. Above rated 100 v.
to 10 meters, 20 w. on 6. 1 lb.

3 459. **5.95**

J BAW 424 LOW-PASS FILTER. Low-cost
filter for Ham rigs up to 100 watts input.
Attenuates more than 60 db above 35 mc
and throughout TV/FM channels. Has 1
constant-K and 2 "M" sections. For 1.5 to 30
mc; 52 or 72 ohms (reversible). SO-239s.
5x2x1 $\frac{3}{4}$ ". 2 lbs.

89 S 461. **8.65**

ANTENNA SWR INDICATORS



C. JONES 261 "MICROMATCH" AN-
TENNA COUPLER. Use with 262 indicator
ow. Measures RF power and VSWR.
ed 1 kw at 1:1 VSWR. Has 52-ohm coaxial
connectors. For 500 kc to 225 mc. Under 0.1
loss. 3x4 $\frac{3}{4}$ ". 1 lb.

3 465. \$5 Monthly. **22.50**

C. JONES 262 INDICATOR. Measures
SWR and relative power to 1 kw. Sensitiv-
adjustable from approx. 10 to 1000 w.
scale. 4 $\frac{1}{4}$ x4 $\frac{1}{4}$ x4 $\frac{1}{16}$ ". Wt., 2 lbs.

3 466. **14.50**

ESCO CM-52 "REFLECTOMETER."
checks SWR. For continuous insertion in
ohm transmission lines of transmitters

90672
Antenna
Bridge

running from 25 to 1000 watts input. Covers
3 to 200 mc. Sensitive 0-100 μ a meter is
calibrated directly in SWR. Less than 1 db
loss at 30 mc. Works with 10 w. at 7 mc and
up; 5 w. at 100 mc and up. SO-239
connectors. 5 $\frac{1}{4}$ x3x2 $\frac{1}{8}$ ". 2 lbs.

89 S 467. \$5 Monthly. **29.95**

MILLEN 90672 ANTENNA BRIDGE. Sensitive
unit measures 5 to 500-ohm impedances
at frequencies up to 200 mc. Use to check
radiation resistance, resonance, line im-
pedance, SWR, receiver input impedance,
etc. Has differential variable capacitor.
Size, 3 $\frac{7}{8}$ x3 $\frac{1}{8}$ x5 $\frac{3}{8}$ ". Wt., 3 lbs.

89 S 310-D. \$5 Monthly. **45.00**

NATIONAL
"VFO-62"

\$49⁹⁵

A deluxe
self-powered
VFO for 6
and 2 meters

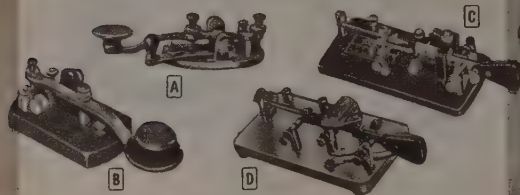


Highly stable, versatile VFO for transmitters
having 8-mc oscillators. Gives full coverage
of 6 and 2 meters. Stability is better than
0.1% from cold start, better than 0.005%
after 30-minute warmup. Plugs into trans-
mitter crystal socket. Has smooth vernier
dial drive and complete internal shielding.
Front-panel socket accepts 1-mc calibration
or a transmitting crystal. Provision for re-
mote standby-operate control. Compact cabi-
net is 5 $\frac{1}{4}$ x6 $\frac{1}{2}$ x5 $\frac{1}{2}$ ". For 110-120 v., 50-60
cycle AC. Wt., 6 lbs.

90 S 696-D. \$5 Monthly. **49.95**

Popular Hand, Semi-Automatic, Electronic Keys

JOHNSON Speed-X Keys



A 114-100-3 DELUXE HAND KEY. Precision-made key of exceptional quality—excellent for beginner and old-timer alike. Has carefully tempered spring and hardened fine-point pivots for smoothest sending action. Spring tension, contact pressure and bearing pressure are easily adjustable. Contacts are of a pit-resistant alloy. Highly attractive satin-brass finish. Contact dia., .072". Has shorting switch. Wt., 2 lbs.
89 S 912. **7.35**
89 S 919. Model 114-100. Above, less shorting switch. **6.45**

B 114-320 STANDARD KEY. Hand key for easy, comfortable sending. Chrome-plated key arm is suspended from hardened steel bearings. Large, $\frac{1}{4}$ " coin-silver contacts. Improved Navy-type knob. Adjustable contact spacing and spring tension. Black die-cast base. Shpg. wt., 2 lbs.
89 S 920. **4.70**

C 114-520 SPECIAL SEMI-AUTOMATIC KEY. Offers smooth and effortless radiotelegraph sending. Contact spacing and sliding weight easily adjust to desired speed. Has circuit-closing switch and $\frac{1}{8}$ " coin-silver contacts. Rubber feet prevent marring finished surfaces and keep "bug" in stationary position on desk. Hardware and vibrator are heavily chrome-plated. Die-cast base has black-wrinkle enamel finish. Shpg. wt., 4 lbs.
89 S 921. **15.95**

D 114-501 DELUXE SEMI-AUTOMATIC KEY. A deluxe speed-key with ruggled $\frac{1}{4}$ " contacts. Arm, posts, circuit-closing switch and all machined parts are heavily chrome-plated. Adjustable from lowest to highest sending speeds. Has 5 locknut adjustments—plastic paddles adjust separately to preferred height. On handsome polished chrome base with rubber feet to prevent slippage or marring. Shpg. wt., 5 lbs.
89 S 934. \$5 Monthly. **22.95**

VIBROPLEX Keys



E "ORIGINAL" SEMI-AUTOMATIC KEY. An easy-working "bug" for speeds from 10 wpm on up. Preferred and used by many veteran operators. Chrome-plated mechanism; gray cast-iron base with slip-proof rubber feet. Wt., 5 lbs.
89 S 939. \$5 Monthly. **22.45**

89 S 940. Deluxe "Original." Above, with jeweled bearings and fully chrome-plated base. Wt., 5 lbs. \$5 Monthly. **26.95**

F "CHAMPION" SEMI-AUTOMATIC KEY. Inexpensive key designed for easy code sending. Chrome-plated mechanism. Attractive gray crackle-finish base. Shpg. wt., 4 lbs.
89 S 949. **17.95**

G "PRESENTATION" SEMI-AUTOMATIC KEY. Beautifully made key featuring patented adjustable mainspring for wide speed range. Jeweled movement resists friction, prolongs life. Chromium precision-machined parts mounted on 24K gold-plated base top. Red knob, finger and thumb pieces. Wt., 5 lbs.
89 S 942. \$5 Monthly. **33.95**

H "BLUE RACER" SEMI-AUTOMATIC KEY. Small, low-cost and well-built. Chrome-plated mechanism. Gray base. 4 lbs.
89 S 941. \$5 Monthly. **22.45**
89 S 943. Deluxe "Blue Racer." Above, but has jeweled bearings and chrome base. Wt., 4 lbs. \$5 Monthly. **26.95**

CARRYING CASE. (Not illus.) Handsome, simulated black morocco case for all Vibroplex semi-automatic keys above except "Blue Racer" models. Cloth-lined; protects key from dust and moisture. Has lock with key, and carrying handle. Wt., 2 lbs.
89 S 944. **6.75**

CORD AND WEDGE SET. For wiring 2 keys in series. Wedge shorts contacts of one key; other controls sending. 3 oz.
89 S 945. **1.75**

ELECTRONIC KEYING DEVICES

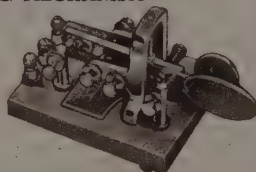
HALLIDRAFTERS HA-1 "T. O." KEYS

Advanced electronic keyer permitting smooth, clear sending. Dots and dashes are self-completing, with perfectly maintained spacing. Timing circuits are electronic, unaffected by relay variations. Calibrated in 10-30 and 25-65 wpm ranges. Has monitor with speaker and phone jack. Monitor may also be fed through receiver audio. Includes speed range selector, monitor level control, dot duration control, etc. Employs 4 dual triodes, 2 VR tubes, 2 neon, 3 diodes. Vacuum-sealed mercury-wetted relay used to key transmitter and sidetone. 5x7x7". Requires keying device (see "Vibro-Keyer," below). Built-in transformer-type supply for 110-120 volts, 50-60 cycle AC. 9 lbs.
90 S 119-D. \$5 Monthly. **79.95**

VIBROPLEX "VIBRO-KEYER" KEYING MECHANISM

Excellent keying mechanism for use with HA-1 "T. O.," HK-1B or any other electronic keyer, manufactured or home-built. Employs famous Vibroplex trunion lever for effortless sending—greatly aids in increasing speed and accuracy. Tension and pressure are fully adjustable. Has sturdy main frame, chrome-finished parts, large $\frac{3}{16}$ " contacts, red finger and thumb pieces, beige-colored $3\frac{1}{2}$ x4 $\frac{1}{2}$ " base, rubber feet. 3 lbs.
89 S 946. **17.95**

89 S 947. Deluxe "Vibro-Keyer." As above, but has chrome-plated base. \$5 Monthly. **22.45**



Standard or Deluxe Models



HAMMARLUND HK-1B KEYS

\$39.95 Features a Distinctive Dot-Dash Control to Add a "Personal Touch" to Your Electronic Sending

Fully transistorized, battery-powered keyer with a "personal touch" dot-dash control that takes the robot quality out of electronic sending. Ideal for both Amateur and professional operators. Can be used as automatic, semi-automatic or straight key. Has sidetone with adjustable volume for monitoring signal or code practice. Range, approximately 8 to 50 wpm; variable dot-dash ratio. Relay contacts have high current capacity—no transistor damage from possible reversing polarity. Size, 2 $\frac{3}{8}$ x7x4 $\frac{1}{2}$ ". Less keying device (left) and battery (below). Shpg. wt. 4 $\frac{1}{2}$ lbs.
90 S 275-D. \$5 Monthly. **39.95**
55 J 560. 22 $\frac{1}{2}$ -V. Battery. 1 lb. **1.60**

Accessories for the Ham Station



Mastercrafters
191 Wall Clock

\$847



24-HOUR STATION CLOCKS

MASTERCRAFTERS 191 WORLD CLOCK. Top-value wall clock—south polar projection shows time anywhere. Chrome-plated face is 8" dia. For 110-120 v., 60 cycle AC. 1 1/2 lbs.

S 472. Price Includes F.E.T. **8.47**

MASTERCRAFTERS 2324 WALL CLOCK. Red second hand, 13 1/2" black case. U.L. Listed. For 115 v., 60 cyc. AC. 8 lbs.

SX 147. Price Includes F.E.T. **9.97**

SX 179. Above, in chrome case. **11.97**

PENNWOOD 920-24H DIRECT-READING CLOCK. Reads in numerals. Steel case, walnut ends. 3 3/4 x 7 3/4 x 3 3/4". U.L. Listed. For 110-120 v., 60 cycle AC. 3 lbs.

S 476. Price Includes F.E.T. \$5 Monthly. **24.50**

PENNWOOD 100-24H DIRECT-READING CLOCK. Ebony case. For desk. 4 x 7 3/4 x 4". For 115 v., 60 cycle AC. 3 lbs.

S 474. Price Includes F.E.T. **16.34**

S 475. Model 124. Above with 10-minute buzzer. **24.26**

MASTERCRAFTERS 7112 DESK/WALL CLOCK. For wall or desk. Has 10-minute timer, face-plate for call letters, and polar projection to tell world time. Lgh., 9 1/2". U.L. Listed movement for 110-120 v., 60 cycle AC. Wt., 3 lbs.

SX 450. Price Includes F.E.T. **12.24**

HY-GAIN ON-THE-AIR SIGN



\$895

Dress
Up the
Shack!

With bulb, cord

Add that professional touch with this handsome unit. Lights up when transmitter is turned on. Change-over/transmitter control relay. Oval 4x8" styron case. With bulb, 6' cord. For 115 v. AC. Wt., 2 lbs. - 90 S 027. **8.95**

TRANSMITTING CRYSTALS, SOCKETS, ADAPTERS

MILLEN STEATITE CRYSTAL SOCKETS. Extremely low loss. Phosphor-bronze contacts. Tinned lugs. Wt., 2 oz.

Stock No.	Type	Pin Spacing	Pin Diameter	EACH
72 S 035	33102	.486"	.094"	36¢
72 S 075	33302	.486"	.050"	24¢
72 S 029	33002	3/4"	.125"	36¢

MOSLEY CRYSTAL-SOCKET ADAPTERS. Adapt crystal sockets to crystal holders with different spacing. 2 oz.

S 544. 75-S. Adapts 3/4" holder to .486" socket. **39¢**

S 543. 5-75. Adapts .486" holder to 3/4" socket. **39¢**

JAMES KNIGHTS SPECIAL-ALIGNMENT CRYSTALS. .486" spacing; .093" pin dia. 3/4 x 3/32 x 3/16". *3rd overtone. 3 oz.

Stock No.	Type	Frequency	Tolerance	Application	EACH
0 S 386	H-17L	4.5 mc	± .005%	TV alignment	4.80
0 S 387	H-17L*	27.255 mc	± .005%	Radio control	2.50

JAMES KNIGHTS INDUSTRIAL CRYSTALS. Case size: H-17, 4 9/16 x 2 3/32 x 3/16"; H-17T, 1 3/16 x 2 3/32 x 3/16". Pin spacing, .486". Pin dia., .050". Special order; allow 30 days for delivery. Specify type No. and frequency desired. Wt., 3 oz.

Stock No.	Type	Frequency	Tolerance	EACH
0 S 388	H-17T (HC-13/U)	30 kc-200 kc	± 0.01%	14.95
0 S 389	H-17 (HC-6/U)	200 kc-750 kc	± 0.005%	13.90
0 S 390	H-17 (HC-6/U)	50 mc-100 mc	± 0.005%	13.18

BLILEY MC-9 ALIGNMENT CRYSTALS. For sweep-generator marker or calibration. Phenolic holder, 1 1/4 x 1 3/16 x 7/16". Tol., ± .02%. Spacing, .486" (1/2"). Pin dia., .093". 3 oz.

S 391. 5.0 mc. 90 S 392. 10.7 mc. **EACH 3.95**

REPLACE YOUR GENERATOR WITH THIS HUSKY 53-AMP ALTERNATOR SYSTEM!

Looseville

Includes
Alternator,
Regulator,
Bracket,
Pulley and
All Cable



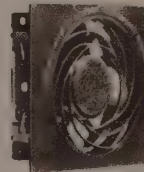
Top Value
\$5995
\$5 monthly

- For Ham, CB and Marine Mobiles
- Easy to Attach—Extends Battery Life
- Charges 15 Amps at Engine Idle
- Requires No Lubrication or Care
- An Allied Exclusive at This Low Price!

Here's the perfect alternator for the mobile enthusiast—or for any car equipped with air conditioner, power accessories, etc. Powerful 53-amp Type 6200 alternator prolongs your battery life by keeping it fully charged at all times—delivers 15 amps even at curb idle. Amazingly easy to install, too; no special skill or experience is required. Alternator features: replaceable silicon rectifiers mounted in efficient heat sinks; anti-friction/roller bearings; shielded slip-ring assembly; self-limiting current; heavy-duty yet compact design. System includes: alternator, voltage regulator, pulley, universal mounting bracket for any car, all cable, and simple instructions. For any 12-v. DC system, neg. or pos. Wt., 17 lbs. 86 SX 106-D. \$5 Monthly. Priced to Save!... **ONLY 59.95**

ROTRON EQUIPMENT COOLING FAN

Deluxe "Whisper Fan" inaudibly cools heat-generating components of transmitters, amplifiers, receivers, etc. Lengthens tube and component life—improves equipment performance. Delivers 60 cfm of cooling air with minimum acoustical disturbance. Of compact design for easy mounting—only 4 1/16" sq. x 1 1/2" deep. Has shaded-pole type motor with pre-lubricated bearings; speed, 1800 rpm. For 110-120 v., 60 cycle AC. 1 1/4 lbs. 82 R 031. **14.85**



J PETERSEN PR-TYPE Z-2 TRANSMITTING CRYSTALS. Black phenolic holder. Pin spacing, .486". Pin dia., .093". Tolerance, ± .03%. Size, 1 1/8 x 1 3/16 x 7/16". Specify frequency; supplied ± 5 kc of frequency specified. *Crystals listed under Stock No. 90 SS 393 (beneath table) are cut to exact frequency you specify. Allow 30 days for delivery. Shpg. wt., 3 oz.

Stock No.	Frequency (kc)	Stock No.	Frequency (kc)	EACH
90 SS 379	1800-2000	99 SS 267	7000-7334	2.95
90 SS 381	3500-4000	99 SS 259	8000-8229	
90 SS 380	6740-6800	99 SS 296	8340-8450	

90 SS 393. JK H-73*. 1.8-18.0 mc. Specify exact freq... **EA. 4.80**

H JAMES KNIGHTS H-173 AMATEUR CRYSTALS. Low current types. Pin spacing, .486". Pin dia., .050". Special order; allow 30 days for delivery. Specify frequency. 3 oz.

Stock No.	Frequency	Tolerance	EACH
90 SS 382	1.8-40 mc	± .01%	4.95
90 SS 383	1.8-75 mc	± .005%	5.95

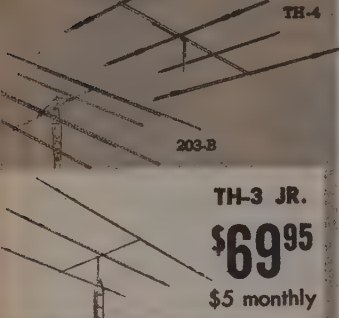
JK H-93 FREQUENCY-STANDARD CRYSTALS. Phenolic base; aluminum can. Silver-plated crystal. Pin spacing, .486". Pin dia., .093". Tol., ± .005%. 2 x 1 1/8" dia. Wt., 3 oz.

90 S 384. 100 kc. 90 S 385. 1000 kc. **EACH 6.95**

Better Transmitting Antennas

BEAMS FOR 80-10 METERS

TH-4 THUNDERBIRD TRI-BANDER. For 10, 15 and 20, 2:1 SWR. 4 elements, 8-8.9 db gain, high F/B. Slim-Traps handle 2 kw PEP. Boom, 16'; turning radius, 17' 10". 43 lbs. Shipped express.
89 CZ 756-D. \$6 Monthly. 117.50
89 CZ 754-D. TH-3. Above, 3 elements, 8 db gain. Boom, 14'; turning radius, 14' 8". Wt., 37 lbs. Shipped express. 99.75
THUNDERBIRD JR. TRI-BANDER. 3 elements on 10, 15 and 20. 8 db gain. Handles 600 watts PEP. Boom, 12', turning radius, 12' 8". 26 lbs. Shipped express.
90 CZ 472-D. \$5 Monthly. 69.95
402-B MONO-BANDER. 2 elements on 40. Beta match, 1.5:1 SWR. 52 ohms. 5 db gain, 20 db F/B. Boom, 16'; turning radius, 16' 4". 41 lbs. Shipped express.
89 CZ 759-2. \$5 Monthly. 99.75
89 CZ 760, 203-B. Above, 3 elements on 20. 8 db gain, 25 db F/B. Boom, 16'; turning radius, 16' 4". 41 lbs. Shipped express. 65.95



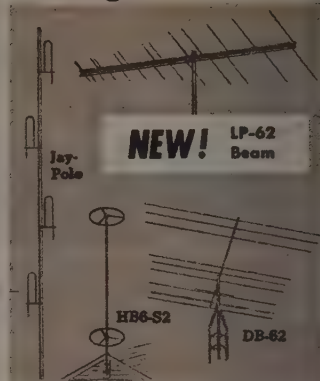
TH-3 JR.
\$69⁹⁵
\$5 monthly

18-JR. \$79⁹⁵
\$5 monthly



80-10 METER VERTICALS

18-JR HY-TOWER JUNIOR. Self-supporting. Stub decoupling system, 10-80 meters. No switching, no traps. 2:1 SWR. Handles 2 kw PEP. 52-ohm coax input. 38' high. Mounts on 1 1/2" O.D. steel pipe. Shpg. wt., 37 lbs. Shipped express.
86 CZ 142-D. \$5 Monthly. 79.95
14-AVS VERTICAL. Slim-Traps cover 10-40 meters, no switching. 2:1 SWR. 52-ohm input. Handles 2 kw PEP. With base insulator, mast mount. Needs roof mtg. kit (below) containing mast, radials, hardware. 21' high. 11 lbs. Shipped express.
89 CZ 765. \$5 Monthly. 29.95
89 CU 766, 12-AVS. Above, for 10, 15, 20 meters. 13' high. 10 lbs. 21.95
89 CU 767, 14-RMK Roof Mtg. Kit. For 14-AVS. 10 lbs. Shipped express. 11.95
89 CU 768, 12-RMK Roof Mtg. Kit. For 12-AVS. 8 lbs. Shipped express. 9.50
89 S 350, LC-80, 80-Meter Loading Coil. For 14-AVS. 1 lb. 7.95
86 S 145, 6-MK 6-Meter Adapter. For 14-AVS and 12-AVS. 2 lbs. 4.95
18-V TRAPLESS VERTICAL. Tunes 10-80 meters by simple adjustment. Single 52-ohm coax input. Heavy-wall aluminum tubing radiator, heavy-duty base insulator. 18' high. 8 lbs. Shipped express.
86 SX 043. 16.95
18-HT HY-TOWER VERTICAL. Self-supporting. For 10-80—no traps. Low SWR. 52-ohm feed. Handles 5 kw PEP. X-braced steel tower, 15' base. 50' high. With base insulators, less ground rod. Shpg. wt., 107 lbs. Shipped express.
89 CZ 769. \$7 Monthly. 139.50
86 S 147, LC-160 Loading Coil. Adds 160-meter operation. 1 lb. 9.95



VHF STATION ANTENNAS

LP-62 LOG PERIODIC BEAM. For 6 and 2 meters. 9 db gain on 6, 10 db on 2. 25 db F/B. SWR below 2:1. Single 52-ohm coax input. 2 stacked 18' booms; turning radius, 10' 8". 21 lbs. Shipped express.
86 CZ 148-D. \$5 Monthly. 83.50
GP-62 6-METER GROUND PLANE. Aluminum 4'5" radiator and 4'5" radials, plastic base insulator. SWR, 1.2:1 on 6 and 2. 11 lbs. Shipped express.
86 CZ 150-D. 19.95
86 SX 151-D, SGP-6 6-Meter Ground Plane. 52-ohm input. 9'10" radiator. 8 lbs. 13.95
86 SX 152, SGP-2 2-Meter Ground Plane. 52-ohm input. 3'5" radiator. 5 lbs. 5.40
DB-62 6-METER BEAM. 4 elements on 6, 18 on 2. Single 52-ohm coax input. 8 db gain on 6, 15 db on 2. 15-20 db F/B. 1.5:1 SWR. Boom, 10'; turning radius, 71". Shpg. wt., 7 lbs. Shipped express.
89 CZ 758. \$5 Monthly. 32.95
HB6-S2 6-METER PHASED HALOS. 52-ohm input. Mast, harness. 25 lbs. Exp.
86 CZ 162-D. \$5 Monthly. 26.50
SIJ-2 2-METER JAY-POLE. Twin-stacked vertical gives 3.5 db gain. 52-ohm input. 8' high. 19 lbs. Shipped express.
86 CZ 163-D. \$5 Monthly. 29.95
64-B 6-METER BEAM. 4 elements give 11.7 db gain. Beta match handles 1 kw. 9'8" elements. Boom, 10'; turning radius, 5'4". Shpg. wt., 8 lbs. Shipped express.
86 CZ 164-D. \$5 Monthly. 21.50
86 CZ 165-D, 66-B. Above, 6 elements. 15 db gain. 10' boom. 17 lbs. 38.50
86 CZ 166-D, 23. 3 elements on 2 meters. 10 db gain. Boom, 3'. 2 lbs. 6.95
86 CZ 167-D, 28. 8 elements on 2 meters. 16.5 db gain. Boom, 14'. 5 lbs. 16.50

Hy-Gain Multiband and Ground-Plane Antennas

SINGLE BAND DOUBLET. Handle 300 watts. With copper clad wire, all insulators, hardware, 50' RG-58/U line.

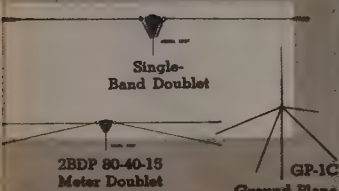
Stock No.	Type	Bands	Lbs.	EACH
86 SX 168	HD-1	10-15	3	5.66
86 SX 169	HD-2	20	3	6.05
86 SX 170	HD-3	40	3	6.70
86 SX 171	HD-4	80	3	8.04

GP-1C. Ground plane for 25-50 mc. Below 1.2:1 SWR. 9' high. For 1 1/2" masts. 11 lbs. Shipped express.
89 CZ 775. \$5 Monthly. 32.70

MULTIBAND DOUBLET. Traps take 1 kw PEP except *trapless, 2 kw. With insulators, less 52-ohm coax. Av. wt. 5 lbs.

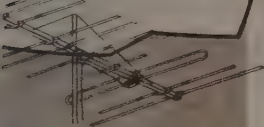
Stock No.	Type	Bands	Ft.	EACH
89 SX 770	2BDP*	15, 40, 80	128	19.95
89 SX 771	2BDT	40, 80	96	19.95
89 SX 772	3BDT	10, 15, 20	29	17.50
89 SX 773	4BDT	10 thru 40	65	24.50
89 SX 774	5BDT	10 thru 80	108	34.95

SGP-10. Ground plane for 10 meters. 1.2:1 SWR. 52-ohm input. 17'3" high. For 1 1/2" masts. 11 lbs. Shipped express.
86 CZ 172. 15.95



Increase Your Hamming Enjoyment

INCO Dual Band Yagi



INCO MODEL A-62 & 2-METER BEAM

Gain on 6, 15.1 Db Gain on 2
y-Duty Boom Is 10 Feet Long
Elements Are Sleeve-Reinforced
ension Rods Stop Boom Sagging

Design VHF beam antenna offer-
ations of 17 db on 6 meters, and 20.5
meters. Gain is up to 8 db on 6 and
on 2 meters. Has folded dipole, re-
ed 2 directors working on 6; folded
h phasing stub, 1—3-element col-
ector and 4—3-element colinear
on 2 meters. Elements are pre-
d with snap-on brackets for easy
on. Pre-assembled boom suspension
p into upper end of mast. Has
"square aluminum boom for extra
U-bolt and saddle assembly at-
tly to your mast. Boom, 10", turn-
s, 8"11". Less 52-ohm line. 12 lbs.
express.
2. \$5 Monthly.....**32.34**
3. Stacking Kit 1 lb.....**2.15**

MOSLEY ANTENNAS

TA-36 3-BAND BEAM. For 10, 15, and 20
meters. Offers a high 20 db F/B ratio.
Gain is 9 db on 10 meters; 8.5 db on 15;
8 db on 20. SWR is 1.5:1 or better on all
bands. Handles up to 1 kw of rf. Longest
element, 29'; turning radius, 19'3". 52-
ohm, coax input. Shpg. wt. 76 lbs.
Shipped express.

89 CZ 785. \$7 Monthly.....**132.10**

V-4-6 4-BAND VERTICAL. For 10, 15,
20 and 40 meters. Traps are rated 1 kw.
52-ohm coax input. Aluminum tubing
telescopes to 20'. Complete with mtg.
plate and guy wires. Wt., 13 lbs.
Shipped express.

89 CZ 788. \$5 Monthly.....**28.50**

89 S 371. D-4BC 80-Meter Base Loading
Coil For V-4-6. 4 lbs.....**16.45**

V-3 3-BAND VERTICAL. Trap-type ver-
tical for 10, 15, and 20-meter bands.
Offers low 1.5:1 SWR or better on all
bands. Traps are rated at 1 kw. Single
52-ohm coax input. 11 1/2' high. With
mounting base, guy lines and hardware.
9 lbs. Shipped express.

89 CZ 789. \$5 Monthly.....**24.10**

V-3 JR. VERTICAL. As above, but 300-
watt model. For 10, 15, and 20 meters.
Height, 11'9". Single 52-ohm coax feed.
7 lbs. Shipped express.

89 CZ 790.....**18.85**

S-402 40-METER BEAM. 2 elements with
efficient link-coupled 52-ohm coax feed
provide 5 db gain and 20 db F/B ratio.
SWR is 1.6:1 or better. Longest element,
44'3". Turning radius, 24'4". 66 lbs.
Shipped express.

89 CZ 784. \$7 Monthly.....**130.73**



MOSLEY TA-33 BEAM

Covers 10, 15, and 20 meters. Provides
up to 8 db gain with 25 db F/B ratio.
SWR is 1:1:1 or less. Enclosed weather-
proof traps handle 1 kw AM. Double-
thickness aluminum elements reduce
sag. Fits masts up to 1 1/2". Longest el-
ement, 28'. Boom, 14'; turning radius,
15'6". Single 52-ohm coax feed. Wt., 55
lbs. Shipped express only.

89 CZ 786. \$6 Monthly.....**104.75**

TA-33 JR. As above, but rated 300 watts.
12' long, 1 1/4" boom. Longest element,
26'8". Turning radius, 14'9". 29 lbs.
Shipped express.

89 CZ 787-D. \$5 Monthly.....**72.98**

CLIFF-DWELLER

Model
CD-40

\$92.50

CLIFF-DWELLER.
tuned, rotatable dipole for 40-
meters space applications. Handles 1
trap, baluns, or matching devices.
Even elements telescope in and out
ate antenna. May be fed with any
of 52-ohm coax. VSWR is 1:1:1 or
table feedpoint compensates for en-
ant. Weatherproof resonators and
aluminum elements. Self-support-

ing, accepts 1 1/4" threaded pipe mast. Turn-
ing radius, 15'8". Control box, 4 1/2"x4 1/2"
4 3/8". 40 lbs. Shipped express.

86 CZ 140-2D. \$5 Monthly.....**92.50**

CD-40-75. "TWO-BANDER" Above, for 40
and 75. 45 lbs. Shipped express.

86 CZ 141-2D. \$7 Monthly.....**129.50**

86 CZ 139-2D. CD-75. Like CD-40, but for
75-80 meters. 41 lbs.....**99.50**



The Ideal Antenna for Applications
Where Space Is Extremely Limited. May
Be Rotated or Permanently Oriented.

Selected SWL and Ham Buys

Replug 12" TALKING GLOBE
educational and fun to use. SWL's
es will find it a useful adjunct to
rtwave equipment. Big 12" full-color
lobe features stereo relief—raised
shows mountains and valleys—you
see, but actually feel the earth's
Removable scale gives flight time
miles to anywhere on the globe.
get a book that gives a history of
e, explains how to use your globe,
ation on satellites. Plus 33 1/2-rpm
et takes you on an around the world
e, 7 lbs.
3D.....**COMPLETE PKG. 12.95**

Replug 12" "Talking"
Globe Package Offer

\$12.95

Book and Record



SW-4 OUTDOOR DIPOLE. Low-cost kit for
shortwave bands. Includes 50' copper wire,
insulators, 65' leadin. 4 lbs.

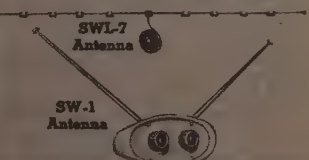
86 SX 174.....**3.95**

SWL-7 OUTDOOR DIPOLE. High-quality
kit for shortwave bands, 11-49 meters. In-
cludes traps, connector, 45' copper wire,
insulators, 100' leadin. 4 lbs.

90 SX 346.....**15.04**

SW-1 INDOOR ANTENNA. S-30 mc. Chrome
telescoping ears. Tune and match controls.
6' cable. Plastic housing. 2 lbs.

90 SX 349.....**14.75**



ing SWL's! See the inside rear
of this catalog for a shortwave
ge that includes this globe!

Towers, Antennas and Accessories



TILT-OVER TOWERS

Priced from \$99.50, these antenna towers crank up to snag DX, yet can be easily tilted over for access to array if adjustments are necessary. Sturdily made of high-tensile steel tubing with solid steel rod, continuous diagonal bracing, and built-in ladder feet. Electrically arc welded, they resist twist, torque and high winds. When used with GPK-S40 ground-post mounting kit, mount in 5' hole, requiring no concrete base or guying. When used with TOP tilt-over post kits, require concrete base (no guys). When used with BAK building-attached kits, anchor to side of any adjoining structure. All will support full-sized beam arrays except Type 6046P, which is designed for 6-meter or other Amateur-band VHF antennas.

All towers are 2-section, standard-duty types except "RBX-60-3G, which is 3-section, heavy-duty type, and have hot-dipped galvanized surfaces except top-painted surface. Accept standard rotor heads, right. Specify rotor to be used when ordering. Towers shipped prepaid by rail from Tampa, Fla.—slight extra charge for truck shipment. Send remittance on cash orders—no C.O.D. Towers also available on our Credit Fund Plan.

Stock No.	Type	Ht.	Lbs.	EACH
D86 CZ 212D	HD-40P†	40'	140	99.50
D89 CZ 827D	RBS-40P†	41'	180	169.50
D89 CZ 828D	RBS-40G	41'	190	209.50
D89 CZ 836D	RBS-SOG	51'	235	279.50
D86 CZ 233D	6046P†	55'	270	189.00
D89 CZ 854D	RBX-60-3G*	60'	355	410.00

TOWER MOUNTING KITS

For use with E-Z Way towers above. Kits contain all necessary equipment for mounting.

Stock No.	Type	For	Lbs.	EA.
D86 CZ 248D	BAK-D	HD-40P	8	6.75
D89 CZ 866D	BAK-S40	Any RBS Twr.	10	10.50
D89 CZ 894D	GPK-S40	RBS-40P or G	150	75.00
D86 CZ 239D	TOP-S40	RBS-40 or G	75	75.00
D86 CZ 241D	TOP-S50G	HBKMP	90	90.00
D86 CZ 247D	TOP-S60-3G	RBS-60-3G	120	120.00



ROTATOR SYSTEM

Handles full-size 20-meter beams... Instant reversing... Indicator readable with motor off \$5 monthly

\$5875

New low-priced rotator system for support, control and rotation of Ham arrays—will support full-size 20-meter beam in high winds. Rotator features streamlined weather design, 50 heavy-duty bearings in two 6½" ball races, 450 inch-lbs. average rotating torque, and heavily reinforced die-cast aluminum housing. Accurately calibrated remote control-indicator unit has large meter calibrated in compass points and 3° increments; double-stage switch permits instant direction reading without moving rotor. Rotator can be easily mounted on all standard towers. Accommodates mast or pipe up to 2½" O.D. Less 7-wire control cable. For 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

90 SX 479. \$5 Monthly..... **\$8.75**

CDR HAM-M ROTATOR SYSTEM. Extra heavy-duty—supports over 1000 lbs. Same indicator as above. Less 8-cond. control cable. For 115 v. AC. 27 lbs.

89 SX 025-D. \$6 Monthly..... **117.11**

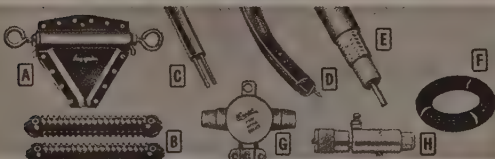
B&W COAXIAL SWITCHES

Single-gang coax switches for instant selection of any one transmitter, linear amplifier, antenna, exciter, etc. using 52 or 75-ohm lines. Have UHF-type connectors. Rated 1 kw RF to 30 mc. 551-A ideal for switching any device in or out of series connection. 3 lbs.



Stock No.	Type	Poles	Positions	EACH
89 S 028	551-A	two	two	7.95
89 S 027	550-A	single	five	8.25

TRANSMISSION LINE, FITTINGS, ANTENNA ACCESSORIES



A HY-GAIN CI DOUBLET CENTER INSULATOR. Weatherproof. Accepts ¼" or ¾" coax. Iridite-treated hdwe. 1 lb.

89 S 351..... **EACH 3.95**

B HY-GAIN EI END INSULATORS. Injection molded. Heavy serrations increase leakage path. 7" long. 1 lb.

86 S 249..... **PER PAIR 2.00**

C AMPHENOL 214-023 75-OHM TWIN LINE. Rated 1 kw. 71% propagation factor. Wt., per 100 ft., 4 lbs.

49 W 495..... **PER FOOT 7¢**

D AMPHENOL 214-076 300-OHM TWIN LINE. Heavy-duty tubular—1 kw RF rating. Air-core spacing. 7x26 copper conductors. Minimum order, 100 ft. Wt., per 100 ft., 4 lbs.

91 CX 457. 100' Coil..... **PER COIL 6.36**

49 W 499. Over 100'..... **PER 100' 6.36**

E CONSOLIDATED RG COAXIAL CABLE. Have vinyl polyethylene dielectric, copper braid shield and bare conductor except "RG11/U, tinned copper conductor.

Stock No.	Type	Ohms	Mm/Ft.	O.D.	Lbs. 100' P
49 W 104	RG8/U	52	29.5	.405"	11
49 W 109	RG11/U*	75	20.5	.405"	10
49 W 113	RG58/U	53.5	28.5	.195"	3

AMPHENOL LOW-LOSS COAXIAL CABLE. Types 621-U, 621-75 similar to RG8/U and RG59/U respectively, but foam dielectric. Attenuation 15% less than RG types.

49 W 644	621-111	50	26.5	.405"	11
49 W 339	621-715	73	17	.195"	2

F BELDEN 8000 ANTENNA WIRE. High-conductivity stranded copper wire. Wt., per 100 ft., 1 lb.

47 T 680. 50' Coil..... **81¢**

47 T 681. 75' Coil..... **1.42**

47 T 682. 100' Coil..... **1.42**

47 T 683. 1000' Coil..... **EACH**

G CESCO "DRIFIT" COAX DIPOLE CONNECTOR. Moisture proof center connector, 1 kw rating. For RG8, RG58, RG59 coax or 300-ohm twin lead. Has eye pull-up. 2 oz.

89 S 026..... **EACH**

H CUSH CRAFT "BLITZ BUG" COAX LIGHTNING ARRESTOR. Prevents coax punctures from high SWR. Type 83 cover install directly to equipment. 3¼" long. 4 oz.

89 S 044..... **EACH**

Amateur Mobile Antennas

NEW "TOPPER" ANTENNAS

top-loaded single-band antennas. "Stabil-Fold" mast for low garaging. Spring-loaded quick-disconnect for in-coming 6-ft. radiators (capsules) to masts. TM-36 3-ft. mast has std. $\frac{3}{16}$ "-24 perglas capsules have encapsulated telescoping tuner rod for easy adjust to resonant frequency. Overall ht. 10 ft. and mast is approx. 102".

No.	Type	Descrip.	Lbs.	E.A.
250	DL-10	10M capsule	1	7.95
251	DL-15	15M capsule	1	7.95
252	DL-20	20M capsule	1	7.95
253	DL-40	40M capsule	1½	9.95
254	DL-75	75M capsule	1½	11.95
255	DM-36	mast section	2	7.95

NEW 6 AND 2-METER HALOS

SEK 6-METER HALO SYSTEM. Center-support type. With halo, bumper mt., 2-ohm beta match. 8 lbs.

258D. 16.50

259D. HH6B 6-Meter Halo. Above

and 52-ohm match only. 7 lbs. 10.95

260D. HH2B 2-Meter Halo. 14"

tubing. 52-ohm match. 3 lbs. 5.95

261D. HHS2B 2-Meter Stacking Kit.

3 db with 2 halos. 1 lb. 4.95

263D. HMB Mast. Takes halos singly

or ther. 5' high. 4 lbs. 5.95

264D. MARK HELIWHIPS. Fiberglass whips for

car, trunk lid, etc. mtg. 2:1 VSWR band-

width. Fit std. mt. or HWM-1. †For 90° swiveling.

No.	Type	Band	*KG	Ft.	Lbs.	EACH
298	HW-6	6 M	4000	3	1	9.95
299	HW-10	10 M	1000	4	1	9.95
302	HW-15	15 M	500	4	1	9.95
307	HW-20	20 M	250	6	1	10.95
308	HW-40	40 M	10	6	1	10.95
309	HW-80	80 M	60	6	1	10.95
310	HW-3	10-15-20M	6	3	1	19.50
614	HWM-1	Swivel base mount	1	7.50		
122	SA-11	Molded adapter	1	3.00		

MASTER "BANDSPANNERS." Tunable fiber-

center-loaded whips for 10-75 mtrs. A-61 is

mtg. A-62, fender/deck mtg. 1 lb.

752. A-61, 117" overall.

347. A-62. 93" overall. EACH 27.50

MOBILE ANTENNAS

DEL 113 2-METER WHIP. For roof-

mtg. Range: 140-165 mc. $\frac{1}{16}$ " hole.

2-ft. coax and PL-259. 1 lb.

269. 3.88

273. 613 Whip. Above with positive-

connector. 4.85

114 2-MTR. COAXIAL ANTENNA.

(us.) Low radiation angle from car or

location. Range: 140-165 mc. $\frac{3}{16}$ " dia.

With 12-ft. 52-ohm coax and 18" ad-

justment. Wt. 6 lbs.

276. 9.75

280 "SLIM JIM." Base-loading coil

96" stainless steel whip for 10/11/

40/80. 5 lbs. Express. 17.59

LOADING COILS

"ALL BANDER." Continuously var-

ies. 10-75 meters. Selects any pair of

at turns. 2½x1¾". 2 lbs.

298. 14.66

298. 750 "Deluxe." Above but selects

not on any turn. 3 lbs. 14.66

"ARISTOCRAT." Tapped for 10-75.

2-sect. whip. 3x6". 3 lbs. 14.66

296. 14.66

NEW VHF MOBILE ANTENNAS

D MW150 2-METER WHIP. $\frac{1}{4}$ -wave stain-

less steel whip 16" long. With single-hole

mt. for roof or deck. 2 lbs. 2.82

E MG144 2-METER GAIN ANTENNA. $\frac{5}{8}$ -

wave whip for 3.4 db gain. Base assembly

for roof or deck mtg. 3 lbs. 7.50

STAINLESS STEEL WHIPS

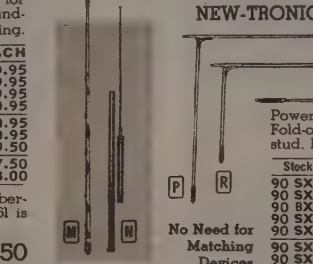
Taper-ground stainless whips with $\frac{3}{16}$ "-24 stud. Ideal for 10 meters, CB, for use as top half of center-loaded antennas, etc.

Stock No.	Type	Fig.	Ft.	Lbs.	EACH
86 SX 290 D	W60	5	1	3.85	
86 CU 291 D	W72	6	2	4.15	
86 CZ 292 D	W96	8	2	4.26	
90 CZ 141 D	W102	8½	2	4.35	
86 CZ 294 D	W108	9	2	4.50	

MOUNTING ACCESSORIES

Av. wt., 1½ lbs.

Stock No.	Type	Fig.	Description	E.A.
86 S 279 D	BDYS	H	cad-pl std body mt	3.03
86 S 280 D	BDY	H	above chrome-plated	4.77
86 S 295 D	BPRS	J	cad-pl bumper mt	
			w/stainless strap	5.97
89 S 823 D	BPR	J	above w/stainless mt	6.57
86 S 297 D	SPGS	K	sprng mt $\frac{3}{16}$ "-24 stud	2.04
86 S 298 D	SPG	K	above chrome-plated	4.77
86 S 299 D	QD	L	steel quick disconnect	2.89



NEW-TRONICS MOBILE ANTENNA ASSEMBLIES

Antenna assembly consists of 1 mast and 1 resonator.

Power ratings (DC inputs): 75 w. AM; 250 w. PEP. Fold-over 54" masts are of $\frac{1}{2}$ " aluminum; have $\frac{3}{16}$ "-24 stud. For 52-ohm coax. Av. wt., 1 lb.

Stock No.	Type	Fig.	Description	Ant. Ht.	E.A.
90 SX 849	RM-10	S	10-mtr resonator	75"-80"	5.95
90 SX 850	RM-15	S	15-mtr resonator	76"-81"	6.95
90 BX 859	RM-20	S	20-mtr resonator	78"-83"	7.95
90 SX 860	RM-40	S	40-mtr resonator	87"-92"	9.95
90 SX 864	RM-75	S	75-mtr resonator	91"-97"	11.95
90 SX 879	MO-1	R	Rear-4'k/1'dr-mt. 54" mast		7.95
90 SX 882	MO-2	P	54" mast for bumper mt.		7.95

LOADING COILS (Cont'd)

Z 89 S 116. 925 "Micro-Z-Match." Match-

es any coax to any whip. 1 lb. 9.95

BB "ULTRA-HI-Q" COILS. For 1-band use

with 2-sect. whip. 1 lb.

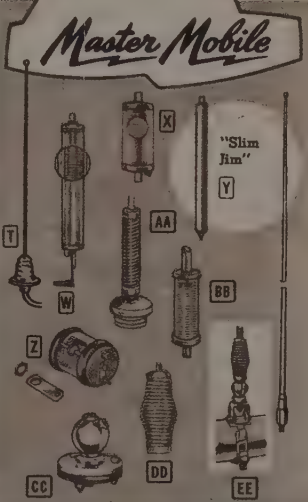
89 S 143. 80 Meters. 2½x8" 5.14

89 S 144. 40 Meters. 2½x5" 5.14

89 S 146. 20 Meters. 2½x3" 5.14

MOBILE ACCESSORIES Av. wt., 3 lbs.

Stock No.	Type	Fig.	Description	E.A.
89 S 217	711	AA	"Flex R" strain relief spring	1.91
89 S 224	444	EE	Heavy-duty sp'ng, double swivel, chain mount	17.80
			$\frac{3}{16}$ "-24 chain mt.	7.95
89 S 238	445		Heavy-duty sp'ng & chain mt.	13.45
89 S 252	446		Cad.-plated sp'ng	4.41
89 S 270	MMW7	DD	Above, heavy duty	5.39
89 S 272	MMW7HC	CC	Ebony base mount	6.81
89 S 285	MMW3AE			
89 S 287	MMW3APS		Polished mount & steel hardware	9.06
89 S 288	MMW7SS		Heavy-duty stain-	
			less spring	8.77
90 CZ 844	100-96S		96" stainless whip	5.14
90 CU 845	100-60S		60" stainless whip	4.05
90 SX 846	88		36" lower section for all band antennas. $\frac{1}{4}$ " dia. hold-down clamp "E-Z-Off" noise free stainless connector	4.85
90 S 847	10-H			.98
90 S 848	295			
				2.89



er Z in Stock No. Indicates Antenna Shipped Express Only

Special-Purpose VHF Receivers

MONITOR CALLS FROM THESE SERVICES:
 30-50 mc FM—police, fire, industrial, road maintenance, utility, paging, private mobile telephone. 152-174 mc FM—Above plus other civil defense and emergency services, taxis, weathercasts, railroads. 108-135 mc AM—jets, private planes, aircraft tower control.

LINCOLN

NEW FM RECEIVERS

\$44.95
\$5 monthly

- Choice of 30-50 or 152-174 mc Coverage
- No-Drift Circuitry
- Built-In 4" Speaker

impedance is 50-72 ohms. In plastic cabinet, 6x9½x5½" (HWD). For operation from 110-120 volts, 50-60 cycle AC, or DC. Shpg. wt., 8 lbs.
90 S 466-D. \$5 Monthly..... 44.95

MODEL 2552—152 to 174 mc. Above, but for higher FM band.
90 S 499-D. \$5 Monthly..... 44.95

HY-GAIN Ground Planes

MODEL GP-150—144 to 174 mc. Ine
 sive yet ruggedly made ¼-wave g
 plane antenna for use with Lincoln
 MR-10, PR-155B and other 152-174 m
 receivers on this page. Radiator and r
 are of iridite-treated aluminum. Omni
 tional—unity gain. Built to commercial
 standards. Ht., 14". Wt., 2 lbs.
86 SX 210.....

MODEL GP-50—30 to 50 mc. Above
 for use with Lincoln 2551, MR-33, P
 and other 30-50 mc FM receivers. 6 lb
86 SX 211.....



Model 2551
 Model 2552

MODEL 2551—30 to 50 mc. Dependable FM
 reception at extremely low cost! New unit
 features temperature-compensated super-
 heterodyne circuit for highly stable, virtually
 drift-free reception. Ratio detector minimizes
 interference from static and AM signals.
 Provides 100-kc selectivity with sensitivity
 of 10 microvolts. 4" PM speaker is self-con-
 tained. Has 5 tubes plus rectifier. Antenna

MONITORADIO FM RECEIVERS



as low as
\$72.50
\$5 monthly

MR-10: 152 to 174 mc
MR-33: 30 to 50 mc

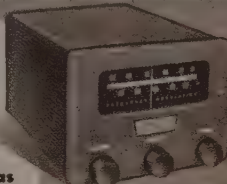
MODELS MR-10 and MR-33. Have adjusta-
 ble squelch, 5" speaker, 4 μv sensitivity.
 7 tubes; rectifier. 7½x11¼x6½". For 110-
 120 v. AC. 20 lbs.

90 SX 667. MR-10. 152-174 mc..... 72.50
90 SX 668. MR-33. 30-50 mc..... 72.50

MOBILE MODELS M-40 and M-160. Have
 tuned RF stage, 4" speaker, squelch. 4½x
 6½x8¾". For 12 v. DC. 13 lbs.

90 S 669. M-40. 30-50 mc..... 103.55
90 S 670. M-160. 152-174 mc..... 103.55

Crystal-controlled Models MRC-10 and
MRC-33 at \$79.95 and Models MC-40
and MC-160 at \$122.95 available on
special order. Specify frequency.



M-40: 30-50 mc
M-160: 152-174 mc



PR-35B: 30-50 mc
PR-155B: 152-174 mc



DR-200: Both 30-50
and 152-174 mc

MODEL PR-35B. Hear exciting calls from
 police, fire and all sorts of other services on
 this moderately priced receiver for the 30
 to 50-mc FM range. Unit features adjustable
 squelch control to mute speaker under no-
 signal conditions, and temperature-compen-
 sated superheterodyne circuit for stable,
 drift-free reception.

Efficient ratio-type detector is inherently in-
 sensitive to AM and static for minimum
 interference to FM signals. Provides 100 kc
 selectivity with 10 μv sensitivity. Has built-in
 4" PM speaker, 5 tubes plus rectifier, and
 compact 6x9½x5½" plastic cabinet. For
 110-120 volts, 50-60 cycle AC, or DC. Shpg.
 wt., 8 lbs.
90 S 664-D. \$5 Monthly..... 54.40

MODEL PR-155B. Same FM receiver as
 above, but for 152 to 174 mc.
90 S 665-D. \$5 Monthly..... 54.40

MODEL DR-200 2-BAND FM RECEIVER
 Covers both emergency-frequency range
 excellent for reception of weak out-
 stations. Has adjustable squelch control
 dual-conversion superhet circuit with
 vision for one crystal-controlled frequen-
 cy in each range (supplied less crystals).
 sivity for 20 db quieting is 1 μv from 30
 50 mc, and 2 μv from 152 to 174 mc. Ci-
 employs 14 tubes plus 5Y3GT rect.
 Cabinet size: 8x14¼x9½". Built-in p
 supply for 105-125 volts, 50-60 cycle
 Less external speaker, below. Shpg.
 21 lbs. **Crystals for fixed-frequency**
ception available on special order
\$11.95 each. Specify frequency
allow 3 weeks for delivery.
90 SU 666. \$9 Monthly..... 169

90 SU 672. MODEL DRS-1 Metal-Enclose
Speaker. For DR-200, above. Sts, 8x
7½". Shpg. wt., 7 lbs..... 1

hallicrafters

GENERAL-PURPOSE AND AIRCRAFT MONITORS



CRX-1
30-50 mc FM

CRX-2
151-174 mc FM

CRX-3
108-135 mc AM

MODEL GRX-2 FM RECEIVER. Receives split-channel narrow-b
 FM commercial and public service communications—picks up
 lica, fire, taxi, etc. Has triple-conversion 10-tube circuit. Sw
 selects dual vernier tuning or 2 crystal-controlled channels (sup
 less crystals). Requires only 1.5 μv signal to open adjustable squ
 Has built-in speaker. Steel cabinet is 5½x13½x8¾". For 110
 volts, 50-60 cycle AC. Wt., 17 lbs.
90 SX 674. \$6 Monthly..... 109
90 SX 675. MODEL CRX-1. Above, for 30-50 mc. 9 tubes..... 9

MODEL CRX-3 AM AIRCRAFT MONITOR RECEIVER. Tunes 108
 mc aircraft band. Dual-conversion, squelch, 7 tubes; 3 diodes.
 13½x8". For 115 v., AC. 17 lbs.
90 SX 676. \$5 Monthly..... 94

Intercom
AM Radio

Complete
\$73.28

Model 2031
Economy Package

NEW!
2055
Master

FM-AM
\$92.33

om Radio-Intercoms for Your Home

NuTone

DEL 2031 AM RADIO-INTERCOM SYSTEM

is a complete 5-station music distribution and intercom at "broadcasts" AM radio programs to any room desired. Users can converse with one another and originate calls. Stations have volume controls and privacy switch. Master has put 8 slide-switches allow easy addition of four more Remotes (use only Model 2027, below). System includes: Master; 2027 Inside Remotes; 1 Model 2006 Door Remote; 200' 3-lb; antenna wire. Master has 16x8 3/4" Colonial copper-front panel that extends 1 1/2" out from wall; box is 7 3/4" x 6 1/2" x 2 1/2". Remotes described below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 24 lbs.
\$8. \$5 Monthly..... 73.28

NEW MODEL 2055 FM-AM 8-STATION MASTER

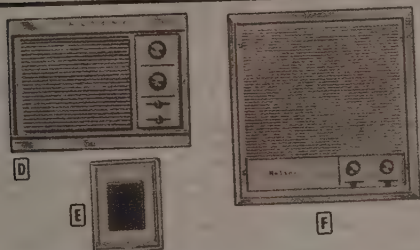
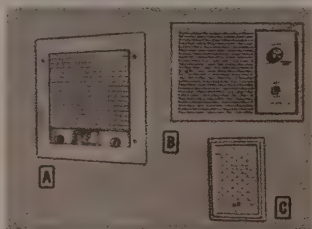
Low in cost, great in performance. Enjoy FM and AM radio, plus Master-to-Remote and Remote-originated intercommunications. Master has selector switches for 8 Remotes; talk-listen switch for door-answering. Function switch (including AFC for drift-free FM reception); volume and tone controls; 7x5" speaker; phono jack. 6 tubes, rectifier. Pilot light. Silver anodized panel finish. 9 1/2" x 14 3/4" x 2 3/4"—extends 1 1/4" from wall. Fits any wall 2 or more inches thick. For 110-120 v., 60 cycle AC. 19 1/2 lbs.
58 RX 173. \$5 Monthly..... 92.33
58 RX 174. 2056. As above, copper finish..... 92.33
58 RX 175. 2053. As above, AM only, silver finish. 11 1/2 lbs..... 55.65
58 RX 176. 2054. As above, AM only, copper finish. 11 1/2 lbs..... 55.65

NUTONE REMOTE STATIONS and ACCESSORIES

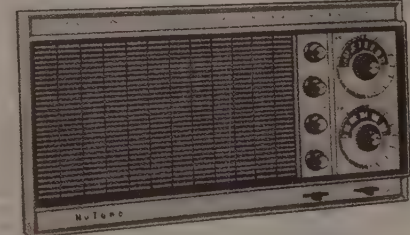
HI-FI INDOOR REMOTE. 8" speaker, talk-listen controls. Walnut grille. 6" x 8 1/2" x 1 1/2".
1. 13.17
2. 2411A Rough-In Frame. For 1" x 1 1/2" x 1 1/2". Shpg. wt. 1 3/4 lbs..... 1.51
2027 INDOOR REMOTE. Has 5" speaker, volume and talk-listen controls. Desert Sand and gold finish. 6 1/2" x 8 1/2" x 1 1/2". Shpg. wt., 5 1/4 lbs.
2. 5.67

2006 DOOR REMOTE. Permits answering door from inside. Check children's outside activities, etc. 3" speaker; talk-listen switch. Weatherproof. Gold anodized finish. Panel measures 5 7/8" x 4 3/8"; box, 5 7/8" x 4 3/8" x 1 3/4". Shpg. wt. 1 3/4 lbs.
58 RX 036..... 5.00

3-CONDUCTOR CABLE (Not illus.). For FM-AM and AM intercoms, above.
58 RX 039. 200' Roll. 6 lbs..... 4.48
58 RX 040. 1000' Roll. 17 lbs..... 16.33



REMOTES, CABLE FOR TRANSISTOR MASTER
D 2570 INDOOR REMOTE. 5" speaker. Volume and function controls; talk-listen levers for inside and for door answering. Desert sand panel, 6 1/2" x 9 1/8". 5 1/4 lbs.
58 RX 182..... 11.18
E 2571 DOOR REMOTE. Indoor remotes control calls. Weatherproof. Black and gold. 6 1/4" x 4 1/8". 5 1/2 lbs.
58 RX 183..... 8.50
F 2572 HI-FI INDOOR REMOTE. 8" speaker. "Break-Away" control panel removable from main unit for more convenient placement. Vol., function controls, 2 talk-listen levers for inside and door remotes. Sand panel, 12x12". 8 1/2 lbs.
58 RX 184..... 17.95
8-COND. CABLE. For Model 2561. Wire from remote-remote.
58 RX 083. 50' Roll. Shpg. wt. 5 lbs..... 3.97
58 RX 185. 250' Roll. Shpg. wt., 12 lbs..... 11.67

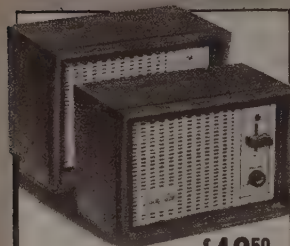


NEW!

- All-Transistor FM-AM Master
- Beautiful "Sealed-In" Finish
- Easy "Frame" Installation

MODEL 2561 MASTER STATION. Deluxe, all-transistor FM-AM radio-intercom unit. Virtually free of heat and hum. Offers independent room-to-room intercom with full fidelity. FM-AM radio (FM has AFC), and door-answering from any station. You can even turn off music at any Remote and still send and receive intercom calls! Radio automatically mutes when intercom is used. 8-cond. cable allows up to 16 Remotes (left). Low-voltage operation greatly simplifies installation. 6x9" full-range speaker. With antennas, hardware. Silver finish panel, 16 1/2" x 8 1/2"; wall frame, 14 5/8" x 7 3/4". For 117 v., 60 cycle AC. 19 lbs.
58 RX 180. \$7 Monthly..... 129.67
58 RX 181. Model 2562. Above, but copper finish..... 129.67

Low-Cost Intercoms for Your Home or Office



A **\$42.50**
NEW! RMS WDT-2
2-Station Wireless System
Genuine Walnut Cases



B **Fasco CI-8202**

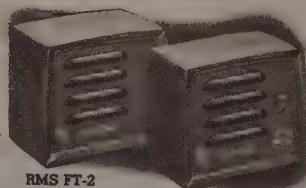
D **Talk-A-Phone**
T-LC-33
"Sonic Gate"
Screens Out
Hum and Noise



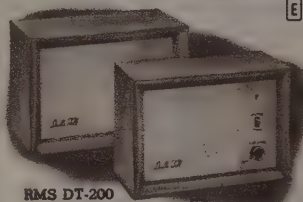
C **Betacom 303**

Full-Fidelity FM
Transmission

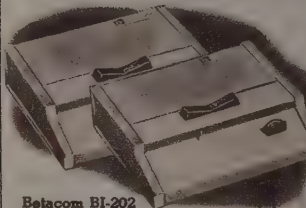
LOW-COST SYSTEMS



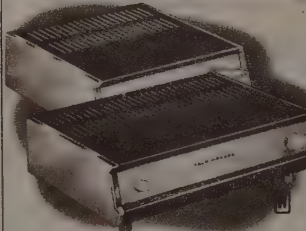
RMS FT-2



RMS DT-200



Betacom BI-202



Talk-A-Phone T-LC-2

PORTABLE DELUXE WIRELESS SYSTEM

A **RMS WDT-2 TWO-STATION SYSTEM.** Plug stations into electrical outlets, and you're ready to talk. No wiring necessary. Hand-rubbed walnut cases grace your rooms. 3-position talk, listen or dictate switches. Adjustable squelch and volume controls. Add any number of extra stations (below). 4 tubes, rectifier. Each, $4\frac{3}{4} \times 8 \times 5\frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC-DC. From Japan. Shpg. wt., 8½ lbs.
58 RX 216. \$5 Monthly. 42.50
58 RX 217. Extra Station. 4¼ lbs. 21.25

B **FASCO CI-8202 TWO-STATION SYSTEM.** Draws less current than an electric clock! All-transistor stations plug into any AC outlet—require no warm-up time. Both stations are Masters. Enjoy 2-way conversation or room-to-room monitoring. Add any number of stations (below). Press-to-talk switches "lock-on". $4 \times 6\frac{3}{4} \times 5\frac{5}{8}$ ". For 110-120 v., 50-60 cycle AC. 5 lbs.
58 RX 031. \$5 Monthly. 52.50
58 R 102. Extra Station. 3 lbs. 26.25

C **BETACOM 303 SELECTIVE MASTER.** An innovation in intercom design. Sends

an FM signal over your house wiring for fidelity 2-way communications. Features separate operating frequencies for up to 4 private, simultaneous, conversations. 6-station system (any number of units can be used in a system). Squelch completely silences units when no calls are being received. Push-to-talk switch, on-off/volume control. 5 tubes, rect. Beige, enamel finish. $8\frac{7}{8} \times 8\frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 4 lbs.
58 RX 220. \$5 Monthly. 42.50

D **TALK-A-PHONE T-LC-33 2-STATION SYSTEM.** Just plug each station into an electrical outlet and instant communication is yours. "Uni-Trans" switch permits talking or listening. "Sonic Gate" screens out noise. Cabinets are beautifully finished in charcoal gray and brushed chrome. Resistant to corrosive effects of liquids and acids. Each unit, $3\frac{1}{2} \times 10\frac{1}{2} \times 3\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC or DC. 16 lbs.
58 RX 056. \$5 Monthly. 72.50

T-LC-17 Extra Station. Add any number of extra stations. Same as above. 8 lbs.
58 RX 057. 26.25

HANDY 2-STATION INTERCOM SYSTEM

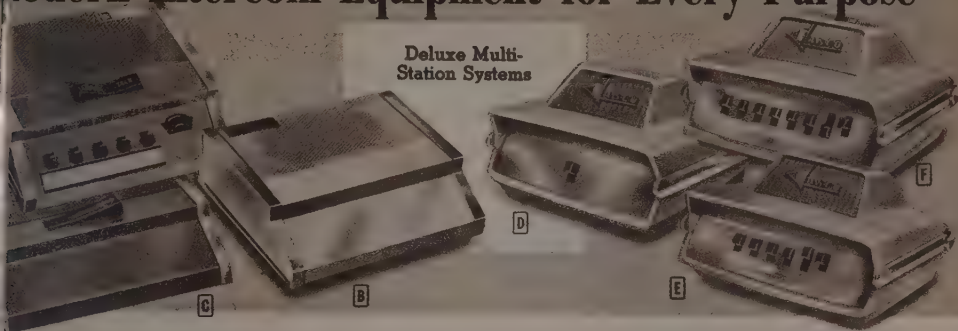
E **RMS FT-2 2-STATION SYSTEM.** Low-cost, highly versatile system. Slave units can return, but not originate calls. A splendid outfit for monitoring or "baby-sitting" in child's bedroom or playroom. 3 tubes. Supplied complete with 50-ft. of cable. Each unit, $5\frac{1}{2} \times 5\frac{3}{4} \times 4$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 5 lbs.
58 R 163. 13.88

G **BETACOM BI-202 2-STATION SYSTEM.** Battery-powered! Place it anywhere! No AC power necessary. Fully transistorized for low-current consumption, heat-free operation and long battery-life. Remote is powered from Master—can initiate calls even when Master is off. Special hold-down tab on Master provides "hands-off" operation for both talking and listening. With 50-ft. of interconnecting cable. $6\frac{1}{2} \times 5\frac{3}{8} \times 1\frac{1}{8}$ ". Shpg. wt., 6 lbs.
58 RX 171. \$5 Monthly. 29.95
5S 1650. 9-Volt Battery. 2 c. 48c
BI-105 POWER PAK ACCESSORY. For converting to AC. ½ lb.
58 R 197. 7.38

F **RMS DT-200 2-STATION SYSTEM.** Only system that takes only minimum wiring to connect. Plug Master into AC outlet. Remote cable, and you're ready to talk. Remote can originate calls. Have talk/listen switch; volume controlled by Master. Walnut cabinets, $4\frac{3}{4} \times 8 \times 5\frac{1}{4}$ ". With 50-ft. cable. For 110-120 v., 50-60 cycle AC. From Japan. Shpg. wt., 5½ lbs.
58 RX 224. 13.88
58 RX 225. Extra Remote. 1¾ lbs. 7.38

H **TALK-A-PHONE T-LC-2 2-STATION INTERCOM.** Deluxe system for home or plant. Both Master and Remote can originate calls. Remote can be set for push-to-talk operation. Master is connected to AC. Has volume control and pilot light; fits in gray vinyl and chrome. Remote fits in matching baked enamel. With 50-ft. cable. Sizes: Master, $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC-DC. 13 lbs.
58 RX 053. \$5 Monthly. 32.50
T-LR-3M. Extra Remote. 6 lbs. 26.25
58 RX 062. 26.25

Modern Intercom Equipment for Every Purpose



Deluxe Multi-Station Systems

BETACOM and FASCO TRANSISTORIZED SYSTEMS

OM MASTER-REMOTE SYSTEM. Fully transistorized. Permits communication between one Master and up to five Remotes. Masters are from two 9-volt batteries or AC Power Pak (below). Remotes initiate calls to Master, even with Master off, but cannot call her. Junction box facilitates wiring.

IX 200. BI-60S Six-Station Master. 2½ lbs. **23.95**

IX 205. BI-601 Remote. Non-private. 2 lbs. **11.50**

IX 210. BI-6 Junction Box. 3 lbs. **3.95**

IX 272. 4-Cond. Cable. 2¼ lbs. per 100 ft. **PER 100 FT. 2.94**

OM INTERMIX SYSTEM. Versatile system permits communication between intermixed Masters and Remotes. Up to 6 Masters actively call each other. Remotes cannot originate calls. Hold-on on Masters provide "hands-off" operation.

IX 186. BI-60SJ Intermix Master. 3 lbs. **31.95**

IX 187. BI-601J Remote. Non-private. 2 lbs. **10.50**

IX 190. BI-6M Junction Box. 3 lbs. **4.95**

IX 332. 8-Cond. Cable. For connecting Masters to Masters. wt., 4¾ lbs. per 100-ft. **PER 100 FT. 6.27**

IX 390. 2-Cond. Cable. For connecting Remotes to Masters. Shpg., 4 lbs. per 100-ft. **PER 100 FT. 1.76**

IX 37. BI-105 AC Power Pak. ½ lb. **7.38**

D E FASCO WI-8101 MASTER-REMOTE 2-STATION SYSTEM.

Versatile all-transistor system consisting of: one Master (E) and one Remote (D); 50 ft. of 3-conductor cable; terminal box; and all necessary hardware. Remote requires no power outlet and can call Master even when the Master is not turned on. Master can handle up to two additional Remotes. Desert Sand finish blends with most color schemes. Each unit, 4x6¾x5½". For 110-120 volts, 60 cycle AC. Shpg. wt., 7 lbs.

58 RX 012. \$5 Monthly. **33.35**

D WI-8121 EXTRA REMOTE. Shpg. wt., 2 lbs.

58 R 013. **7.35**

58 R 016. 3-Cond. Cable. 150-ft. roll. 3½ lbs. **2.00**

58 R 017. 3-Cond. Cable. 500-ft. roll. 15 lbs. **6.34**

F FASCO WI-8102 MASTER STATION.

For up to 7-station systems. Unlimited flexibility. Stations can be private or non-private, and can call one or all others. With terminal box and hardware. Less cable, below. Requires WI-8151 Power Supply, below. Desert Sand finish. 4x6¾x5½". Shpg. wt., 3 lbs.

58 R 014. **17.00**

WI-8151 POWER SUPPLY. (Not illus.) Transistorized. One required per system (up to 7 stations). 3x5x1¾". For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

58 R 015. \$5 Monthly. **30.35**

58 R 018. 9-Cond. Cable. 250-ft. roll. 3 lbs. **20.68**

LUXE TALK-A-PHONE UNITS

Units provide instant, selective communications. Central Master and Staffs may be mounted in wall, or with the HI-SM Housing Assembly, may be mounted on wall or cabinet, or placed on a table. Each system requires a Central Master and either a 4F6H 9-Volt Battery or an HI-PS AC Power Supply. Add any combination of units and Indoor and Outdoor Subs. Up to 8-station capacity. (a) and Staffs can call any station individually. Subs cannot initiate calls, but can talk with all except another Sub. All feature private or non-private operation, except non-private Outdoor HI-9 Master and HI-8 Staff are identical except Master has supply. HI-4 Sub can selectively call up to three other stations. All have satin-silver finished panels. Flush mounting. HI-9 and HI-8 have plaster mounting rings, 4¾x14¼x3½". Masters have ¼" front panel.

CENTRAL MASTER. 8-station capacity. 7 lbs.

58 R 127. \$5 Monthly. **58.00**

58 R 129. \$5 Monthly. **58.00**

58 R 130. \$5 Monthly. **58.00**

58 R 131. \$5 Monthly. **58.00**

58 R 132. \$5 Monthly. **58.00**

58 R 133. \$5 Monthly. **58.00**

58 R 134. \$5 Monthly. **58.00**

58 R 135. \$5 Monthly. **58.00**

58 R 136. \$5 Monthly. **58.00**

58 R 137. \$5 Monthly. **58.00**

58 R 138. \$5 Monthly. **58.00**

58 R 139. \$5 Monthly. **58.00**

58 R 140. \$5 Monthly. **58.00**



SUB-STATIONS AND ACCESSORIES

HI-1 OUTDOOR SUB. Illuminated name-plate, push button. Fits 2" sq. x 2" deep wall opening. 5½x3¾". 1½ lbs.

58 R 127. **15.95**

HI-2 INDOOR SUB. Same size, mounting as above. 1½ lbs.

58 R 129. **15.95**

HI-4 WALL-MOUNT STAFF. Mounts in 6½x4½x2" wall opening. Call or talk to any 3 stations. 7¾x4¼x1½".

58 R 135. **17.50**

58 R 136. T-SM-L Surface Mount, for HI-4. **4.60**

HI-SM HOUSING ASSEMBLY. Permits HI-9 or HI-8 to be placed on table, mounted on wall or cabinet. 6x15½x4". 2½ lbs.

58 R 130. **11.00**

58 R 131. 8-Station Junction Box. 1¾x8¾x8". 1 lb. **4.00**

58 R 132. HI-PS AC Power Supply. For 110-120 v., 50-60 cycle AC. 3x5x2". 5 lbs. **15.95**

58 R 133. 4F6H 9-Volt Battery. 8½x4½x5½". 9 lbs. **5.53**

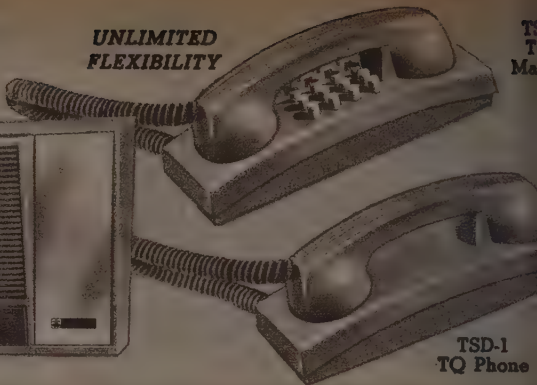
Write to Us for Help in Planning Your Intercom System

ALLIED 239



Master

UNLIMITED
FLEXIBILITY



TSD-1
TQ Phone

ALL-TRANSISTOR
... NO WARM-UP

Remote

Bogen Advance-Design Phones and Intercoms

VERSATILE ALL-TRANSISTOR INTERCOMS

ALL-MASTER SYSTEM. Transistorized system, using up to six TIA-6, or up to twelve TIA-12 Masters. Any Master can call any other and, in TIA-6 system, can call all at once. Have volume control, press-to-talk bar, selector switch with "mute" position. Each unit, 3x8 1/2 x 6". Less cable. Use cable with one more conductor than no. of stations. For 117 v., 60 cycle AC.

MASTER-REMOTE SYSTEM. Consists of a TIA-6 Master and up to five RIA-1 Remotes; or a TIA-12 Master and up to 11 Remotes. Master can call any Remote and, in TIA-6 system, all simultaneously. Remotes have press-to-talk bar; can be non-private (controlled by jumper); can call a Master. Remotes, 3x8 1/2 x 6". Less cable. Use 3-cond. cable (48 W 825, below) between Master and each Remote.

INTERMIX SYSTEM. TIM-12 Master Stations are for systems with total of 12 stations in any combination with TIA or RIM-6 Remotes. RIM-6 Remote can initiate calls to any one of six TIM-12 Masters; RIA Remotes can initiate calls only to one Master.

TIA-6 6-STATION MASTER. Shpg. wt., 7 lbs.	
58 R 019. \$5 Monthly.....	34.45
TIA-12 12-STATION MASTER. Shpg. wt., 7 lbs.	
58 R 020. \$5 Monthly.....	39.25
RIA-1 REMOTE. Calls 1 Master; called by any Master. 6 lbs.	
58 R 021.....	10.45
TIM-12 12-STATION INTERMIX MASTER. 7 lbs.	
58 R 022. \$5 Monthly.....	47.00
RIM-6 6-STATION REMOTE. Calls any of 6 Masters. 6 lbs.	
58 R 023. \$5 Monthly.....	23.40
48 W 825. 3-Cond. Cable. For Rem. to Mast. 2 lbs....	PER 100' 5.09
48 W 759. 8-Cond. Cable. For 6-station Master or Remote. Shpg. wt., 4 1/2 lbs....	PER 100' 4.26
48 W 894. 18-Cond. Cab. For 12-stet. Mast. 8 lbs....	PER 100' 8.33

SERIES TSD PRIVATE BOGEN-PHONES

Masters can talk privately (up to 5 simultaneous conversations 10 phones) with each other, or in conference with all. Remote receive calls from any Master; can call only one Master. Master size, 3 3/4 x 9 1/2 x 3 1/4". Use cable with at least 4 conductors more number of phones. Connect Remote with 6-conductor cable. PRS-10 power supply per system. Masters' wt., 6 1/2 lbs.

58 R 024. TSD-10 10-Station Master. \$5 Monthly.....	34.45
58 R 025. TSD-20 20-Station Master. \$5 Monthly.....	39.25
58 R 026. TSD-1 Remote. 6 lbs. \$5 Monthly.....	10.45
58 R 027. PRS-10 Power Supply. 4x7". Use 3-conductor cable, below. For 110-120 v., 50-60 cycle AC. 8 lbs....	47.00

BOGEN "TQ" NON-PRIVATE PHONE SYSTEM

Selective ringing with common talk-line—permits conference. Less cable and power supply, below. Use phone cable with at 3 conductors more than the number of phones. 9 1/2 x 3 1/4 x 3 1/4".

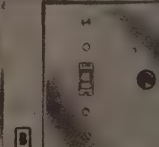
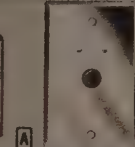
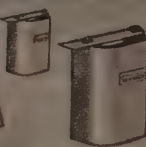
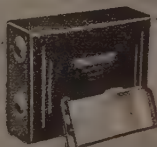
TQ-6 PUSHBUTTON PHONE. For up to 7 stations. 6 1/2 lbs.	
58 R 118. \$5 Monthly.....	EACH 20.45
TQ-12 PUSHBUTTON PHONE. For up to 13 stations. 6 1/2 lbs.	
58 R 119. \$5 Monthly.....	EACH 23.40
58 R 133. PRS-1 Power Supply. 4x6x1 1/2". Use 3-conductor cable below. For 110-120 v., 50-60 cycle AC. 6 lbs....	47.00

POWER AND PHONE CABLE

Stock No.	Cond.	Lbs. per 100'	PER FT.	PER 100'
48 W 879	3	4	2 1/2¢	2.25
48 W 892	6	3 1/2	5¢	3.82
48 W 893	12	6	7¢	5.88
48 W 894	18	6 1/2	9 1/2¢	8.33
49 W 845	26	11	15¢	12.15



PHOTO ELECTRIC
CONTROLS
for Convenience
and Protection



HANDY LAMP-LIGHT CONTROL

Dependable photoelectric control that automatically turns on lights at dusk; shuts them off at dawn. Protects property while you're away; offers convenient night lighting. A snap to install—just place control near a window facing outside, natural light. Plug into outlet and plug lamp(s) into unit. Handles 600-watt loads. 3x2 1/2 x 1". For 110-125 v., 50-60 cycle AC. Wt., 1 lb.

58 R 250.....	7.99
---------------	------

WORNER "FOTOELECTRIC" UNIT

NEW MODEL 61. New, all-transistor design. Chime sounds when light beam is broken. Consists of "Fotoelectric" unit, mirror and chime. Place unit 3-10 ft. from mirror. 8 1/4 x 6 1/2 x 2 3/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 11 lbs.

58 R 254. \$5 Monthly.....	40.50
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58 R 255. Extra Bulb. 5 oz.....	.66¢
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58 R 256. Extra Chime. 2 lbs.....	4.90
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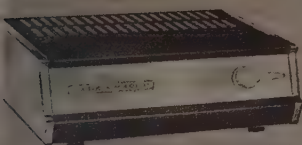
LIGHT CONTROLS

A 58 R 252. Outdoor Light Control. Below, but automatic only. Fits standard outlet box. Stainless steel finish. 12 oz.

B INDOOR LIGHT CONTROL. Ivory plate control turns indoor lights on or off automatically or manually. Fits standard outlet box, 2 1/2" or deeper. 300-watt or 115 VAC. 12 oz.

58 R 251.....	8.99
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DELUXE INTERCOMS PERBLY ENGINEERED

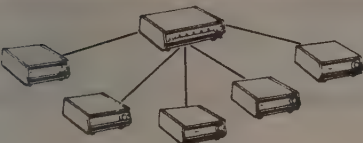


T-LR-3 Sub

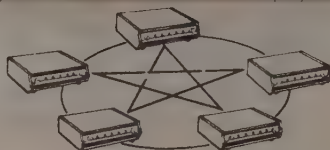


10-Station Master Station

EASY-TO-USE SYSTEMS FOR DOZENS OF PRACTICAL, COST-SAVING USES



MASTER-SELECTIVE SYSTEM. One Master station can call any number of Sub-stations up to ten. Subs can call the Master but not each other.



SUPER-SELECTIVE ALL MASTER SYSTEM. All stations can call any other station or stations, either privately or non-privately. Conference calls can be set up.

Versatile TALK-A-PHONE Intercoms

MASTER-SELECTIVE INTERCOM SYSTEMS

consisting of one Master and up to 10 Subs. Master can call several or all Subs simultaneously. Subs can call Master but not each other. Master is always private. Subs can be private or non-private. When non-private, Sub operator can talk from a distance. Master requires outlet. Master has press-to-talk switch, volume control and slide switches. Leather-textured with gray finish and chrome, except T-LR-3M Sub—has baked grained enamel. Subs, $3\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{3}{4}$ " ; Master, $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ ". U.L. Listed. For 110-120 volts, 50-60 cycle AC.

MASTER. For up to 5 Subs. Shpg. wt., 10 lbs.
58. \$5 Monthly..... **34.95**

10 MASTER. For up to 10 Subs. Shpg. wt., 10 lbs.
59. \$5 Monthly..... **44.00**

52. T-LR-3 Sub. Wt., 7 lbs. **15.95**

52. T-LR-3M Sub. Wt., 7 lbs. **11.95**

58. T-LR-3R Built-in-Wall Sub. 7 lbs. **11.95**

6. Mtg. Box for above. $7\frac{1}{2} \times 4\frac{3}{8} \times 2\frac{1}{8}$ ". 5 lbs. **4.60**

04. 5303 3-Conductor Cable. 3 lbs. per 100'..... **PER FT. 3¢**

70. 6303 Shld. 3-cond. Cable. 2 lbs. per 100'..... **PER FT. 4¢**

SUPER-SELECTIVE INTERCOM SYSTEMS

Versatile intercom systems consisting entirely of Master units. Any station can originate a call to any other station or stations—separate conversations can be handled simultaneously, and conference calls set up. Each Master has light to indicate when unit is in operation. Also has press-to-talk bar, slide switch and volume control. Steel case finished in leather-texture gray vinyl and chrome. Stations can be placed more than 1000 ft. apart. Less cable, below. Size, $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ ". For 110-120 volts, 50-60 cycle AC or DC. U.L. Listed. Shpg. wt., 10 lbs.

MODEL T-LS-5. For systems with up to 5 stations.
58 RX 054. \$5 Monthly..... **34.95**

MODEL T-LS-10. For systems with up to 10 stations.
58 RX 055. \$5 Monthly..... **44.00**

CABLE. For T-LS-5, use 5506. For T-LS-10, use 9911. To determine quantity, measure from first station to second only; second to third only, etc., and total. Do not connect last station to first.

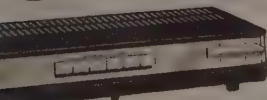
49 W 605. Type 5506 6 Conductor Cable. Shpg. wt., 4 lbs. per 100 ft. **PER FOOT 7 1/4¢**

49 W 603. Type 9911 11 Conductor Cable. Shpg. wt., 12 lbs. per 100 ft. **PER FOOT 14¢**

TALK-A-PHONE Wireless Selective Systems



NO WIRING...
PORTABLE



T-LCM

"Gate" Passes Voice—
Screens Out Noise



T-LCS

ALL-MASTER SYSTEMS

T-LCM MASTER STATION. Just plug each Master station into any outlet, on the same power company line-transformer, and begin noise-free communication. Any Master station can call any other selectively, or all together. 6-station system allows up to 3 separate conversations simultaneously; 12-station system, up to 6. Indicator light goes on when Master station is in operation. Finished in charcoal gray and brushed chrome. Size, $3\frac{1}{2} \times 14 \times 8\frac{3}{4}$ ". U.L. Listed. For 110-120 volts, 50-60 cycle AC.

58 RX 043. T-LCM 8906. Up to 6 stations. 13 lbs. \$5 Monthly..... **79.50**

58 RX 050. T-LCM 8912. Up to 12 stations. 15 lbs. \$5 Monthly..... **89.80**

MASTER-AUXILIARY SYSTEMS

One or more T-LCM Masters (left) and any number of T-LCS Auxiliaries (below). Auxiliary can reply but not call. Ideal for selective area paging. Place one or more channel 1 auxiliaries in one room, one or more channel 2's in another, etc. Master pages any area. Last digit in T-LCS type no. indicates channel. $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC-DC. 10 lbs.

58 RX 044. T-LCS-901. \$5 Monthly..... **45.00**

58 RX 045. T-LCS-902 **45.00**

58 RX 046. T-LCS-903 **45.00**

58 RX 047. T-LCS-904 **45.00**

58 RX 048. T-LCS-905 **45.00**

58 RX 049. T-LCS-906 **45.00**

KNIGHT

PUBLIC ADDRESS

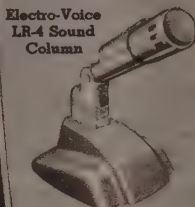


Best-Value 50-Watt P.A. Amplifier

OUR FINEST HIGH FIDELITY PUBLIC ADDRESS AMPLIFIER

DELUXE 50-WATT INDOOR
"SOUND COLUMN" SYSTEM

\$225⁰⁰
\$12 monthly



Electro-Voice
LR-4A Sound
Column

Electro-Voice
664 Mike, Stand



Atlas
Floor
Stand

SAVE \$33.86. Carefully selected for maximum performance in average-size auditoriums, churches or gymnasiums. Big-name components include: Knight KN-3050 50-Watt Amplifier; E-V 664 Wide-Range Dynamic Mike and 419 Desk Stand; Atlas Floor Stand; E-V LR-4A Line Radiator with 50-ft. Speaker Cable. LR-4A speaker gives broad, even sound coverage. Mike has 40-15,000 cps response. Wt., 70 lbs.

21 PA 238. \$12 Monthly..... **225.00**

21 PA 239. Save \$47.48. As above, but with two E-V LR-4A Radiators. 92 lbs..... **279.00**

\$129⁵⁰

\$7 monthly

- 4 Broadcast-Type Mike Inputs
- Gain, Bass, Treble Controls
- Calibrated Sound Level Meter
- "Anti-Feedback" Circuitry

Professional-quality 50-watter for use wherever maximum audio fidelity is required. Highlights include: controls and inputs for full mixing of up to four microphones; separate boost and trim controls for each type bass and treble controls. "Anti-feedback" circuitry reduces annoying howling and prevents trumpet blow-out. Output jack permits simultaneous tape recording. Has sockets for plug-in low-impedance microphone transformers (optional, see below); output tube balance and hum-bucking controls; accurately calibrated sound level meter; pilot light. Aluminum and black finish. $5\frac{7}{8} \times 17\frac{1}{4} \times 11"$. For 110-120 v., 50-60 cycle AC. Ship. wt., 29 lbs.

95 DU 115-D. \$7 Monthly..... **129**

95 D 130. Plug-In Low-Impedance Transformer. For 600-ohm mikes. 1 lb..... **EACH 13**

95 D 131. 3-Channel Remote Mike Mixer. For KN-3050 only. Permits control of amplifier from remote position. With 50-ft. cable. $5\frac{1}{2} \times 2\frac{1}{2} \times 1"$. 1½ lbs..... **12**

KN-3050 SPECIFICATIONS

Rated Output Power: 50 watts (100 watts peak).

Frequency Response: ± 1 db, 30-20,000 cps (at 50 watts).

Inputs: 4—Mic; 2—Aux (High-Level Phono, Tuner, Tape Recorder; Mag Phono).

Controls: 4—Mic; 2—Aux; Bass; Treble; Master Gain; Anti-Feedback; Local/Remote Mike Control Adapter; Output Tube Balance; Hum Balance; Meter Calibrate; On-Off.

Hum and Noise: 75 db below rated output.

Input Required for Rated Output: Mic, .006 v.; Aux, .25 v.; Mag Phono, .012 v.

Outputs: 4, 8 and 16 ohms; 25 and 70.7 volts; Tape Recorder Output.

Tubes: 2—6CA7/EL34; 4—12AX7; 6AV6; 5V3 rectifier.

Power Consumption: 160 watts at 120 v. AC.

KNIGHT

KN
3210

MICROPHONE

AUX 1 AUX 2

MASTER TONE



KNIGHT

PUBLIC ADDRESS

KN
3210

10 WATTS
\$29⁷⁰

KN
3220

20 WATTS
\$41⁵⁰

-3210 10-Watt Sound Systems

ECONOMY INDOOR SYSTEM



as low as

\$44⁹⁵

\$5 monthly

ERS UP TO
PERSONS

Argos Baffle
and 8" Speaker
E-V
727SR
Mike

ECONOMY PORTABLE SYSTEM



COVERS UP TO
500 PERSONS

\$56⁹⁵

\$5 monthly

Atlas
floor
and

8" Speaker-Baffle-
Carrying Case
E-V
727SR

INDOOR SYSTEM—SAVE \$4.02

ondid for quiet areas. Offers excellent fidelity. Includes: Knight KN-3210 Amplifier; Argos WB-8C Wall Baffle and 8" Speaker; Electro-Voice 727-SR Desk Microphone. Baffle comes in blonde or walnut—specify finish. Shpg. wt., 22 lbs.
PA 219. \$5 Monthly.....**44.95**
PA 220. Save \$4.98. Above, with 2 speaker-baffles. Shpg. wt., 27 lbs. Specify Finish.....**51.50**

PORTABLE SYSTEM—SAVE \$6.63

lowest-priced, most compact portable system. Includes: Knight KN-3210 Amplifier; Baffle-Carrying Case; Heavy-Duty 8" Speaker; Electro-Voice 727-SR Desk Microphone; Floor Stand Adapter; Atlas Floor Stand; 50-Ft. Speaker Cable. Speaker has "whizzer" cone for extended highs. Case holds entire system. 28 lbs.
PA 221. \$5 Monthly.....**56.95**

KN-3210 10-WATT P.A. AMPLIFIER

standing value for full coverage of up to 5000 square feet. Offers: controls for 1 mike and 2 aux. inputs (phone, gramophone, recorder); master tone control; "quick-change" tone selector. Inverse feedback gives 40-20,000 cps response, cuts hum and distortion. Outputs: 4, 8, 16, 25 and 70.7 volts. Two tubes plus rectifier. Black aluminum. 5x12½x10¼". With connectors. For 110-120 v. AC. Shpg. wt., 12 lbs.
DX 111-D. \$5 Monthly.....**29.70**

KN-3220 20-Watt Sound Systems

ECONOMY PORTABLE SYSTEM

FOR MEDIUM-
SIZE AREAS

as low as
\$83⁵⁵

\$5 monthly



Case-Speakers

E-V
727SR
Mike

Floor
Stand

ECONOMY INDOOR SYSTEM

FOR SMALL
AUDITORIUMS

as low as
\$69⁹⁵

\$5 monthly



8" Speakers
2 Baffles

E-V
727SR

Floor
Stand

PORTABLE SYSTEM—SAVE \$7.04

Includes: Knight KN-3220 Amplifier; 2—Utah 12" Speakers; Baffle-Cases; E-V 727SR Desk Mike; Atlas Floor Stand; 2—50' Spkr. Cables. 67 lbs.
21 PA 222. \$5 Monthly.....**83.55**
21 PA 224. Deluxe System—Save \$18.09. Includes: Knight KN-3220 Amplifier and Case; E-V 664 Mike; Atlas Desk and Floor Stands; 2—8" Coax Speakers in Baffle-Cases; 50' Cables. 75 lbs.....**119.50**

INDOOR SYSTEM—SAVE \$7.38

Includes: Knight KN-3220 Amplifier; 2—8" Speakers in Argos Baffles; E-V 727-SR Desk Microphone; Atlas Floor Stand. Baffles in blonde or walnut—Specify Finish. Shpg. wt., 44 lbs.
21 PA 226. \$5 Monthly.....**69.95**

KN-3220 20-WATT P.A. AMPLIFIER

Value-packed amplifier is identical to Knight KN-3210, below left, but offers full 20-watt output and 30-20,000 cps response. Uses 4 tubes plus rectifier. For 110-120 v. AC. Shpg. wt., 25 lbs.
95 DU 112-D. \$5 Monthly.....**41.50**

KN-3201 PHONO TOP

For KN-3210 and KN-3220. Plays up to 12" records at 16⅓, 33⅓, 45 and 78 rpm. 6 lbs.
95DX116-D. \$5 Monthly. **17.95**



KNIGHT

PUBLIC ADDRESS

35-Watt Amplifier and Systems ... Your Finest P.A. Values



Great for Both Indoor
and Outdoor Events



KN
3235B

Full 35 Watts

NEW KN-3235B 35-WATT AMPLIFIER

\$54⁷⁰

\$5 monthly

- Superior Tone and Sound Quality
- Special Anti-Feedback Circuitry
- Separate Bass and Treble Controls
- Master Gain Control

Newly designed to give you the most for your P.A. dollar. Combines power with versatility to give finest performance to music, paging, general coverage work, and many other uses. The KN-3235B features: low frequency filter that serves as anti-feedback control—also serves as trumpet-diaphragm protector; instant speaker impedance matching—simply adjust the special selector; inverse feedback for superior audio quality; 25 and 70.7 volt output taps for easy connection of up to 70 speakers; separate bass and treble controls for perfect tonal quality; and a master gain control. Size, 5x15¼x10¼". Handsomely styled in black and silver. Shpg. wt., 28 lbs. 95 DU 113 D. \$5 Monthly. **54.70**

KN-3235B SPECIFICATIONS

Power Output: 35 watts (70 watts peak)
Frequency Response: ±2 db, 30 to 20,000 cps
Inputs: 2—Microphone; 2—Auxiliary (high-gain Phono, Tuner or Tape Recorder)
Controls: 2—Microphone; 1—Auxiliary Fader; 1—Bass; 1—Treble; 1—Master Gain; 1—Anti-Feedback; 1—On-Off
Outputs: 4, 8, 16 ohms; 25 and 70.7 volts
Tubes: 2—12AX7A; 1—6AV6; 2—6L6GC; 1—5AS4
Power Consumption: 110 watts at 120 volts AC

MODEL KN-3201 PHONO TOP FOR KN-3235B



Attaches easily to amplifier in a jiffy. Plays all 4 speeds manually. Turnover cartridge with needles. Wt., 8 lbs. 95 DX 116 D. **17.95**



E-V
664 Mike

Complete
\$134⁹⁵
\$7 monthly



Floor
Stand

Carrying
Case and Speakers

**COVERS UP
TO 2000
PERSONS**



Amplifier Case

Our system price saves you \$16.41 on this carefully balanced audio distribution system—ideal for music or voice reproduction. Consists of Knight KN-3235B 35-Watt Amplifier with Charcoal Carrying Case; E-V 664 Wide-Range Dynamic Mike; Atlas MS-10C Mike Floor Stand; Two 12" Full-Range Coaxial Speakers with 50-ft. Cable and Carrying Case. Shpg. wt., 78 lbs. 21 PA 201. \$7 Monthly. **134.95**
21 PA 202. Above, with phono top. 84 lbs. 152.36

LOW-COST PORTABLE SYSTEM



E-V
951
Mike

**COVERS UP
TO 2000
PERSONS**
\$109⁹⁵

Floor Stand \$6 monthly Case and Speakers



System price saves you \$14.13. A fine unit for traveling dance bands and vocal groups. Includes Knight KN-3235B 35-Watt Amplifier; E-V 951 Crystal Cardioid Mike; Atlas MS-10C Mike Floor Stand; Two Utah 12" Speakers with 50-ft. Cables Speaker Amp. Carrying Case. 69 lbs. 21 PA 203. \$6 Monthly. **109.95**
21 PA 204. Above, with phono top. 75 lbs. 127.50

35-WATT SOUND COLUMN SYSTEMS

System price saves you \$22.36 off the cost of components bought separately. This excellent 35-watt indoor system has been carefully selected for maximum performance and value. It is tailored for average-size auditoriums, churches or gymnasiums. Provides high-quality sound and music reproduction and overcomes noise problems. Includes: Knight KN-3235B 35-Watt Amplifier; Electro-Voice 636 Dynamic Mike; Atlas MS-10C Mike Stand; Argos SD-1060 Sound Column with Six Drivers. Less speaker cable. The Argos sound column broad, even sound coverage in the most difficult situations. The fine Electro-Voice microphone has a 13,000 cps response. Shpg. wt., 55 lbs.

205. \$6 Monthly.....119.95

206. Above, with phono top. 61 lbs.....137.50

207. Save \$31.46. Same as 21 PA 205, but has sound columns for wider coverage. 78 lbs...149.95

208. Above, with phono top. 84 lbs.....167.50

209. Save \$45.85. Includes 2 Electro-Voice LR-4A sound columns, KN-3235B amplifier, E-V 664 mike, and MS-10C floor stand. 89 lbs.....199.95



Sound Director



Knight 35-Watt Amplifier



Mike Floor Stand



E-V 636 Mike

as low as
\$119⁹⁵

\$6 monthly

COVERS UP TO 2000 PERSONS

Sound columns give uniform loudness, top music projection, reduced feedback and easy installation.



Selected, Performance-Proven 35-Watt P.A. Systems



INDOOR SYSTEMS

Mike floor stand

E-V 729SR Mike



Knight KN-3235B 35-Watt Amplifier



OUTDOOR SYSTEMS



E-V 844 Outdoor Speakers

COVERS UP TO
100,000 SQ. FT.

as low as
\$119⁹⁵



Shure 520SL Mike

\$91⁹⁵

COVERS UP TO
2000 PERSONS

2-8" Speakers

LOW-VALUES IN 35-WATT INDOOR SYSTEMS

System price saves you \$7.64. Carefully selected for use in schools, stores, halls, school recreation rooms, etc. Provides clear reproduction for paging and has provision for easy addition of extra speakers. Includes: Knight KN-3235B 35-Watt Amplifier; E-V 729SR Ceramic Mike with Desk Stand; Atlas MS-10C Mike Stand; Two Argos 208SL 8" Speaker-Baffles with Volume Controls; Two 50-ft. Speaker Cables. Shpg. wt., 57 lbs.

210. \$5 Monthly.....91.95

211. As above, with phono top. 63 lbs.....109.25

213. Save \$16.17. Same as 21 PA 210 system listed above, with Four Argos 208SLT 8" Speaker-Baffles with transformers for increased coverage. Shpg. wt., 67 lbs.....119.95

214. As above, with phono top. 73 lbs.....137.70

35-WATT OUTDOOR SYSTEMS

Our system price saves you \$25.53 off the cost of components purchased separately. A fine choice for providing full-range coverage wherever large indoor or outdoor areas must be blanketed with sound. Excellent for noisy factories, indoor arenas or small outdoor stadiums. System includes: Knight KN-3235B 35-Watt Amplifier; Shure 520-SL Grip-to-Talk Mike; Three E-V 844 Weatherproofed Speakers. Less speaker cable, shown elsewhere in this catalog (use weather-proofed type for outdoor installation). Shpg. wt., 61 lbs.

21 PA 215. \$6 Monthly.....119.95

21 PA 216. As above, with 4-speed phono top included. Shpg. wt., 67 lbs.....137.70

Systems Shipped Truck or Express

ALLIED 245

KNIGHT

PUBLIC ADDRESS

75-Watt P. A. Sound Systems IDEAL FOR EVERY HIGH-POWER APPLICATION



KN
3275B

*Full 75 Watts
of Audio Power*

NEW KN-3275B DELUXE AMPLIFIER

\$82⁹⁵

\$5 monthly

- Now Has Master Gain Control
- Special Anti-Feedback Circuitry
- 25-Volt Output—No Conduit Needed

Newly designed—gives you the most for your dollar. For stadiums, factories, auditoriums—anywhere maximum coverage is essential. Highlights separate bass and treble controls, new master gain control, "anti-feedback" circuitry that stops feedback and guards against trumpet burnout. "Quick-change" selector lets you choose output impedance instantly. Inverse feedback circuitry gives superior audio quality. With Amphenol 75MC1F mike connector. Black and aluminum. 5x15 $\frac{1}{4}$ x10 $\frac{1}{4}$ ". U.L. Listed. For 110-120 v., 50-60 cycle AC. Shpg. wt., 39 lbs.
95 DU 114-D. \$5 Monthly.....**82.95**

SPECIFICATIONS

Power Output: 75 watts (150 watts peak).
Frequency Response: ± 2 db, 30-20,000 cps.
Inputs: 2—Mic; 2—Aux (Phono, Tuner or Tape).
Controls: 2—Mic; Aux Fader, Master Gain; Bass; Treble; Anti-Feedback; On-Off.
Outputs: 8, 16 ohms; 25 and 70.7 volts.
Tubes: 2—12AX7A; 6AV6; 2—6CA7; 5AS4A; 5Y3GT.
Power Consumption: 180 watts at 120 v. AC.

4-SPEED PHONO TOP FOR KN-3275B



Plays at 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 and 78 rpm. Completely assembled. Attaches with just a screwdriver. Pickup arm has turnover cartridge. Shpg. wt., 8 lbs.
95 DX 116-D.....**17.95**

75-WATT INDOOR P.A. SYSTEM

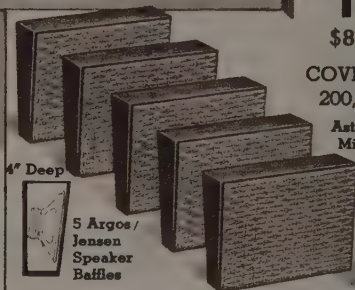


\$154⁹⁵

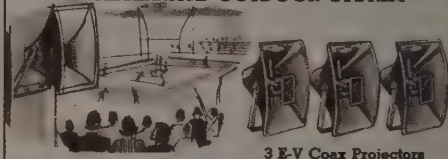
\$8 monthly

COVERS UP TO
200,000 Sq. Ft.

Astatic
Mike



ALTERNATE OUTDOOR SYSTEM



3 E-V Coax Projectors

INDOOR SYSTEM—SAVE \$15.59

Gives highest-quality voice and music reproduction in large noisy auditoriums, restaurants, offices, etc. Includes: Knight KN-3275B 75-Watt Amplifier; 5 Argos 208SLT Wall Baffles with Jensen 8" Speakers, 70.7-V. Line Transformers and L-Pad Controls installed; Astatic 200-S Mike with Stand and 8-Ft. Cord. Less speaker cable. Baffles come in blonde or walnut finish—specify. Shpg. wt., 67 lbs.
21 PA 228. \$8 Monthly.....**154.95**
21 PA 229. Above with phono top. 73 lbs..**172.60**

OUTDOOR SYSTEM—SAVE \$41.62

Provides maximum intelligibility over an extremely wide area. Covers over 25,000 persons. Includes: Knight KN-3275B 75-Watt Amplifier; 3 E-V Model 848 CDP Projectors; Astatic 200-S Mike with Stand. Less speaker cable. 81 lbs.
21 PA 230. \$10 Monthly.....**199.50**
21 PA 231. Above with phono top. 90 lbs..**216.95**

All-Transistor Mobile Sound System

FULL 30 WATTS OF AUDIO POWER WHEREVER YOU GO



KN-3230M MOBILE AMPLIFIER

- Works from 12-Volt Battery
- Just 1/4-Amp Idling Current
- For Autos, Sound Trucks, Boats

Plus Many Other Outdoor Applications

KN-3230M MOBILE AMPLIFIER

\$99⁹⁵
\$7 monthly

Triumph of skillful engineering, the ultra-modern KN-3230M provides a full 30 watts of audio power. Operates from any 12 v. DC, neg. or pos.-and source—power cord plugs into your automobile or truck cigarette lighter receptacle. Efficient transistor circuit has extremely low battery drain—idling current of only 1/4 amp. And no need to wait till it warms up—ready to use immediately. At full output uses only 4.5 amps. Lightweight, sets up in moments. Perfect for use at parks, picnic areas, advertising campaigns. Black cabinet has aluminum-finish panel. 3 1/2 x 10 3/4 x 6". Shpg. wt., 11 lbs.

X 117-D. \$5 Monthly..... 69.95

SPECIFICATIONS

Frequency Response: ±3 db, 100-10,000 cps.
Hum and Noise: 67 db down.
Inputs: 1—Mic, 1—Phono.
Controls: Mike, Phono, Master Tone, Off-On and Trumpet Protector Switch.
Impedances: 4, 8 and 16 ohms.
Current: 4.5 Amps at full power; 1/4 Amp idling.

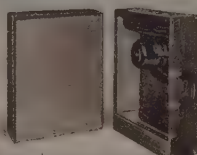
OPTIONAL 4-SPEED PHONO TOP

Plays records to 12"; plays at 45, 45, and 78 rpm. Ceramic tonearm cartridge has sapphire tip. Powered by amp. With 11 lbs. Wt., 6 lbs.

X 118-D..... 32.40



MOBILE/PORTABLE SOUND SYSTEM



2-8" Speakers, Case

Atlas Floor Stand



Case for Amp

\$129⁹⁵

\$7 monthly



PORTABLE SYSTEM—SAVE \$14.93

Ideal system for outdoor use at picnics, sports events, etc. No AC outlet needed, just plug amplifier into any 12-volt automobile's cigarette lighter—speakers can be taken as far away as desired. Includes: Knight KN-3230M All-Transistor 30-Watt Mobile Amplifier and Carrying Case; Two 8" Coax Speakers with 50-ft. cables, in a Carrying Case that separates into two baffles; Electro-Voice Model 951 Crystal Microphone with 18-ft. cable; Atlas Floor Stand. Speaker case in closed position, 20x16x13 3/4". Shpg. wt., 60 lbs.

21 PA 232. \$7 Monthly..... 129.95

21 PA 233. Above with phono top. 66 lbs..... 161.95

MOBILE SYSTEM—SAVE \$11.31

\$99⁵⁰

\$5 monthly

E-V 844 Projector



Shure 404B Microphone



Alternate E-V 848 Speakers



Get top-notch mobile performance and reliable sound coverage. Ideal for rallies, advertising—any outdoor activity. System includes: Knight KN-3230M All-Transistor 30-Watt Mobile Amplifier; Electro-Voice 844 Paging Speaker; Shure 404B Controlled Magnetic Mike and Cable. Less speaker cable. Shure mike gives excellent intelligibility. E-V speaker has aluminum horn, excellent response. Shpg. wt., 21 lbs.

21 PA 234. \$5 Monthly..... 99.50

OPTIONAL SYSTEM—SAVE \$16.32. As above, with 2 E-V 844 Paging Speakers. 29 lbs.

21 PA 235. \$6 Monthly..... 115.95

ALTERNATE SYSTEM—SAVE \$31.42. As above, but with 2 E-V 848 Projectors. Made of weather-proofed fiberglass. Shpg. wt., 43 lbs.

21 PA 236. \$8 Monthly..... 154.95

Bogen

P.A. AMPLIFIERS and MIXER-PREAMPS



MXM Mixer-Preamplifier

Incorporate all the latest refinements for top-versatility. Portable units with leather handles; thumb-screw-fastened, slide-back cases, etc.

**MTX-30 Deluxe 30-Watt
All-Transistor Amplifier**



ECONOMY AMPLIFIERS

MODEL CHB35 35-WATT AMPLIFIER. Excellent value for medium-power P.A. work. Has 2 mike inputs with individual controls; 2 phono inputs with fader; separate bass and treble controls; master volume control. Magnetic phono cartridge can be used. Response: ± 2 db, 20-20,000 cps. Gain: Mic, 125 db; Phono, 100 db, Magnetic, 115 db. Hum and Noise: -80 db. Outputs: 4, 8, 16 ohms; 25 and 70-v. line. 5 tubes, plus rectifier. With gray case. $6\frac{3}{4} \times 15\frac{3}{4} \times 10"$. U.L. Listed. For 105-125 v., 50-60 cycle AC. Shpg. wt., 21 lbs.

57 SX 346. \$5 Monthly..... **71.95**

57 SX 358. Model CHB20. As above, but 20-watts; 1 mike input. 19 lbs..... **53.95**

57 SX 347. Model CHB50. Like CHB35, but 50-watt unit. Wt., 24 lbs..... **82.45**

57 SX 348. Model CHB100. Same as above, but 100-watt output. 29 lbs. **112.45**

MODEL MUSOM 50-WATT UNIVERSAL AC/DC MOBILE AMPLIFIER. Built-in inverter lets you run amplifier off 12-volt battery or regular AC line. Features: all-transistor circuit (12 with silicon rectifier); mixing/fading of 2 mikes and 2 auxiliary signals; chassis-mounted switches permit use of tape head, mag. phono cartridge, high or low-impedance mikes. Response: ± 2 db, 30-15,000 cps. Gain: Mic, 125 db, Aux., 95 db. Hum: -80 db. Outputs: 4, 8, 16 ohms; 25 and 70-v. line. With case, 4-ft. power leads with battery clips. Less battery. $6\frac{3}{4} \times 15\frac{3}{4} \times 10"$. For 117 v., AC/12-v. DC. Wt., 18 lbs.

57 SX 359. \$9 Monthly..... **142.50**

57 SX 360. LPD-33-Speed Manual Phono. Attaches to top of MUSOM. With cartridge, rubber turntable mat, 45-rpm adapter. $4\frac{3}{4} \times 13 \times 9\frac{1}{2}"$. Wt. 11 lbs. **29.40**

MXM MIXER-PREAMP

For use in critical P.A. or recording applications. Has 5 independently controlled mike inputs—one converts for use as phono or tuner input. Accurate level-meter for monitoring of combined output. High-impedance output (convertible to low-Z with T-165B) for connection to supplementary booster amplifiers, below.

Features: individual speech filters for each channel; variable level markers; distortion-free tone controls. Output: ± 18 dbm at less than 1% distortion. Controls: 5—Gain; 4—Speech Filter; Mike-Tuner-Phono; Bass; Treble; Off-On Master Gain. 8 tubes, plus rectifier. Response: ± 2 db, 20-20,000 cps. Hum: -60 db. With case. $5\frac{3}{8} \times 16\frac{1}{2} \times 13"$. For 110-120 v., 50-60 cycle AC. Wt., 28 lbs.

57 SU 310. \$9 Monthly..... **147.75**

57 S 336. T-155 Transformer. 200-ohm, plug-in mike transformer. 1 lb..... **9.40**

57 S 333. T-165B Output Transformer. Converts output of MXM to 600-ohm broadcast standard. Wt., 1 lb..... **12.00**

MODEL MT-30 POWER BOOSTER. Delivers 30 watts at less than 1% distortion. ± 1 db, 10-25,000 cps. All-transistor circuit. Hi-Z input (1 v., min.). $5 \times 8 \times 13"$. For 105-125 v., 50-60 cycle AC. 19 lbs.

57 SX 361. \$6 Monthly..... **103.90**

57 SU 316. MO-100 Booster. As above, but delivers 100 watts. Requires 2 v. input. Has speech filter. 38 lbs..... **129.45**

MOBILE AMPLIFIERS

MODEL BT35 35-WATT AMPLIFIER. Compact, fully-transistorized unit ideal for use in cars and boats. Delivers 35-watt continuous output at less than 10% distortion within temperature range of -20 to $+65^\circ$ C. Has low-impedance mike input, 2—high-level auxiliary inputs for tuner, tape, phono, or accessory siren or fog horn signals. Features: splash-proof design; polarity protection to prevent improper connection to battery; 5 transistors, plus silicon diode—(no vibrator hash). Response: ± 3 db, 150-15,000 cps. Gain: Mic, 110 db; Aux., 90 db. Hum: -90 db. Outputs: 4, 8, 16 ohms. With case. $3 \times 8 \times 6\frac{1}{4}"$. For operation from 12 volts. DC. Shpg. wt., 11 lbs.

57 SX 364. \$5 Monthly..... **79.45**

57 SX 365. Model BT20. As above, but 20-watt unit; has 2 inputs—mike and aux. Response: ± 3 db, 250-12,000 cps. $6\frac{1}{2} \times 4\frac{1}{2} \times 4"$. Shpg. wt., 8 lbs..... **59.95**

MTX-30 30-WATT AMPLIFIER

Deluxe, remarkably versatile unit. Offers a full 30-watts output at less than 1% distortion. Has a total of 11 inputs, six of which may be mixed and faded simultaneously—gives you complete mastery of almost every input source. Advanced, all-transistor design permits continuous operation at full output even at a temperature as high as 65° C (149° F). Circuit uses 32 transistors, plus 2 silicon diodes.

Inputs: 6—Mic (4 that can be used for low impedance mikes with transformers); 2—Magnetic Phono or Tape Playback Head; 2—Auxiliary (high-impedance for line level signals); 1—600 ohm Balanced Line—bridging. Each of the 6 input channels has a speech filter switch; and can be used with optional, accessory controls. Other controls include: Master Volume, Bass, Treble, and a calibrated, variable Low-Frequency Filter.

Response: ± 1 db, 10-25,000 cps. Gain: Microphone, 125 db; Magnetic, 120 db; Auxiliary, 95 db. Hum and Noise: 70 db. Outputs: 4, 8, 16 ohms; 25-v. balanced 70-v. balanced; tape recorder and booster amplifier jacks. With case. HW $4\frac{3}{4} \times 16\frac{1}{2} \times 12"$. For 105-125 v., 50-60 cycle AC, or 12 volt DC. Shpg. wt., 27 lbs.

57 SX 363. \$12 Monthly..... **224.60**

57 S 371. T-200 Transformer. 200-ohm mike transformer for above. 1 lb..... **14.40**



LOW-COST MIXER-PREAMP

MODEL MX6-A. Mixes any combination of 4 of its 6 inputs, which include 4 high impedance mike inputs, and 2 tuner phono inputs. Invaluable for multi-n applications in Public Address and tape recording work. Features a numerically marked gain control for each input channel; power on-off indicator light; cathode follower output; etc. Gain of 59 db, 30 db; 30 db for phono. With case. $5\frac{1}{2} \times 8 \times 3\frac{3}{4}"$. For 110-120 v., 60 cycle AC. Shpg. wt. 6 lbs.

57 SX 337. \$5 Monthly..... **40.50**



Your Best Microphone Value Is

KNIGHT®

DELUXE KN-4550 CARDIOID DYNAMIC MIKE

Called for Stereo Tape Recording and P.A. Use
Feedback Pattern ✓ 50-13,000 cps Response
or Low-Impedance Output ✓ Dynamic Element

\$34.50
less stand

High-quality dynamic microphone with cardioid pattern that picks up sound from front of mike and rejects most sound from the rear. Its high directivity, "peak-free" response make this an excellent choice for P.A. and recording. It sharply reduces feedback and unwanted audience-noise. Great for outdoor use. Two separately tuned chambers assure a smooth 50-13,000 cps response. Level, -56 db. Tough acoustalloy diaphragm withstands extremes of heat, humidity. $\frac{5}{8}$ "-27 threading fits all floor and desk stands. Satin-chrome finish on-off switch. $7\frac{1}{4}$ "x1 $\frac{3}{8}$ ". Wired for high-impedance; easily changed to low-impedance connector. Shpg. wt., 2 lbs.
\$5 Monthly..... **34.50**



High Front-to-Back
Ratio Sharply Lowers
Audience-Noise
Pickup

ECONOMICAL KN-4510 CERAMIC MIKE WITH STAND

Well-Suited for Variety of Applications
Floor or Desk Stand ✓ 50-11,000 cps Response
Swivel-Mount Desk Stand and 7' Cable and Plug

Save \$1.00
\$9.50
with stand

This economical microphone and stand combination that saves you \$1.00 off price if purchased separately. Small and lightweight, the KN-4510 is ideal for use in recording, paging, and by lecturers. Ceramic element is unaffected by moisture and humidity extremes. Has high-impedance output of -56 db. All-around pattern gives uniform pickup within 360° area. Provides wide-range response of 50 to 11,000 cps. Brushed-chrome case. $5\frac{1}{8}$ "x1 $\frac{1}{8}$ ". With swivel-mount, 7-ft. cable and phone plug. Shpg. wt., 4 lbs.
7. Special Offer..... **BOTH FOR 9.50**
8. Knight KN-4510 Mike Only. Shpg. wt., 2 lbs..... **7.95**
9. Swivel-Mount Desk Stand Only. Shpg. wt., 2 lbs..... **2.55**



SPECIAL OFFER!
Order KN-4510
with stand—regular
\$10.50 value—and
Save \$1.00

BLUE-PACKED KN-4500 DYNAMIC MIKE WITH STAND

Plugs into 90% of All Tape Recorders in Use
Directional Pattern ✓ 60-12,000 cps Response
Matching Desk Stand ✓ 10' Cable, Connector, Plug

\$23.95
with stand

Excellent microphone value. Includes matching desk stand with base, 10-ft. cable and a screw-type connector and phone plug already attached. The all-around pickup pattern and 60-12,000 cps response are splendid for home recording, P.A. coverage of a number of performers, etc. Its moving-coil dynamic element is virtually indestructible and immune to climatic variations and humidity. High-impedance output of -55 db. $\frac{5}{8}$ "-27 threading fits any floor stand. Satin gold and black. $7\frac{1}{2}$ "x1 $\frac{5}{8}$ ". Shpg. wt., 4 lbs.
\$5 Monthly..... **23.95**



Includes
Desk Stand
with Tip-
Proof Base,
10' Cable,
Connector

LOWEST-COST KNIGHT CRYSTAL MIKE

High-quality at rock-bottom cost. For home recording, P.A. use, etc. Shock-mounted crystal element. Very high output of -60 db. 60-8500 cps. Plastic case. $2\frac{1}{16}$ "x2 $\frac{7}{16}$ "x1". With 5-ft. cable and connector. Shpg. wt., 1 lb..... **2.59**



Transcription Players by **Bogen**

VP20 PLAYER. Hi-fi player and 20-watt amplifier in single carrying case. "Break-a-part" design—one side of case is amplifier/player; other has 12" speakers. 25-ft. cable. Player has less than 1% wow and flutter; takes up to 15" of tape. G.E. magnetic cartridge; arm and tone arm adjust. Speed variable from 15 to 45 rpm (click-stops at 16, 33 $\frac{1}{3}$, 45, and automatic cueing. Amplifier: $\pm 1\frac{1}{2}$ to 15,000 cps. Inputs: tuner or phono, 2 high-imp. mikes. Outputs: 16" speaker, recorder. Controls: Power, Volume, Scratch Filter, Volume. Gray, black. $16\frac{1}{2}$ "x15 $\frac{3}{4}$ "x12 $\frac{1}{4}$ ". 117-v., 60 cycle AC. 46 lbs.
\$8 Monthly..... **140.90**

VP40A PLAYER. Similar to VP20, but with 40-watt amplifier, and less speakers (below). Has speech filter. $18\frac{1}{4}$ "x16 $\frac{1}{2}$ "x8 $\frac{1}{2}$ ". Wt., 35 lbs.
57 SX 370. \$8 Monthly..... **150.05**
57 SX 366. "Break-a-part" speaker carrying case for VP40A. Has two 12" speakers and two 25' cables. $16\frac{1}{2}$ "x15 $\frac{3}{4}$ "x11 $\frac{1}{2}$ ". Wt., 23 lbs..... **54.90**
VP10 PLAYER. (Not illus.) 10-watt portable. Plays all 4 speeds. High-imp. mike input; tone, level controls. 12" speaker with 25' cable in cover. Black, gray. $15\frac{1}{2}$ "x14x11 $\frac{1}{2}$ ". For 117-v., 60 cycle AC. 29 lbs.
57 SU 345. \$5 Monthly..... **96.90**





General-Purpose Cardioid Microphones

DESIGNED TO REJECT SOUND FROM REAR

DELUXE MODEL 664

"Just Right" for
P.A. Use



Super-Cardioid
Pattern and
Wide Response—
40-15,000 cps

This extra-rugged dynamic unit is a superb performer. It's E-V's best mike for general-purpose P.A. use. Offers high discrimination against sounds from front and rear. Permits close-talking without boominess. "Variable-D" construction assures cardioid pattern at all frequencies. Offers natural reproduction of both voice and music; increases permissible working-distance from mike. Greatly reduces feedback. "Pop-proof" wire-mesh grille minimizes wind and breath blasts.

Response, 40 to 15,000 cps. Output, -55 db. Impedance, 150 ohms and high impedance. Impedance is changeable by single wire. Has on-off switch and detachable 18-ft. 2-conductor cable. Cast zinc case finished in chrome. $\frac{5}{8}$ "x $\frac{27}{32}$ " thread. $\frac{7}{16}$ "x $1\frac{1}{8}$ " dia. 2 lbs.

57 S 241. \$5 Monthly..... 49.98



NEW!
Model 676

NEW MODEL 676. A dynamic mike with a cardioid pattern—Features "Variable D" design and 3-position low-frequency attenuation switch. Permits working farther away from mike. Response, 40 to 15,000 cps. Output level, -58 db, high impedance. Impedance, 150 ohms and high Z. 18-ft., 3-conductor cable. $\frac{5}{8}$ "x $\frac{27}{32}$ " thread. $\frac{7}{16}$ "x $1\frac{1}{4}$ ". Shpg. wt., 3 lbs.

57 S 432. \$5 Monthly..... 58.80



Model
644

MODEL 644. Highly directional dynamic mike that combines cardioid and distributed-front opening to give greatly extended frontal pickup. Above 700 cps, sound rejection at sides and rear is 20 to 25 db! Reverberation and feedback are sharply reduced. Response, 40 to 12,000 cps. Output level, -33 db, high impedance. Impedance, 150 ohms and high Z. (Change cable connector for high Z.) On-off switch. 18-ft. 2-conductor cable. Die-cast satin-chromed case with $\frac{3}{4}$ " aluminum tube. $\frac{5}{8}$ "x $\frac{27}{32}$ " thread. Size, 16x $\frac{3}{16}$ " diameter. Shpg. wt., 3 lbs.

57 S 121. \$5 Monthly..... 64.68

Models
729
729SR



Model
951

MODEL 729. Low-cost cardioid mike. High front pickup range nearly double that of pressure mikes. Great for Hams, P.A., paging, and home recording. Response, 40 to 8000 cps. Output, -60 db. High impedance. Gray die-cast front; plastic back. 18-ft. cable. With smart desk stand and floor stand adapter. Size, $\frac{7}{16}$ "x $1\frac{1}{2}$ " diameter. Shpg. wt., 1 lb.

57 S 173..... 14.98

MODEL 729SR. As above, but with microphone relay control switch. 1 lb.

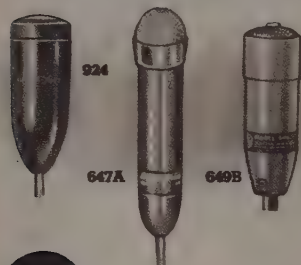
57 S 181..... 15.98

MODEL 951. Excellent crystal mike that is splendid for P.A. use. Variable "D" principle gives uniform cardioid pattern at all frequencies and high discrimination against unwanted sound. "Pop-proof" wire-mesh grille minimizes wind and breath noise. 50-11,000 cps. Output level, -63 db. High impedance. TV-gray die-cast case. 18-ft. cable. $\frac{5}{8}$ "x $\frac{27}{32}$ " thread. $\frac{5}{16}$ "x $1\frac{1}{4}$ " diameter. Shpg. wt., 1 $\frac{1}{2}$ lbs.

57 S 218. \$5 Monthly..... 32.98

For Maximum Mobility—LAVALIER Microphones by Electro-Voice

LIGHT AND SMALL FOR HAND USE



924

647A

649B

MODEL 649B. Weighing only 31 grams (less cable), this miniature dynamic, omnidirectional microphone presents new possibilities in "walk-about" applications. The result of painstaking research, it's the perfect mike for any programming that requires concealed or unobtrusive mike placement. The 649B offers high-quality performance. Frequency response is 60 to 12,000 cps. Output level, -61 db. Low impedance. 30-ft. cable. Miniature aluminum case is finished in non-reflecting gray. Supplied complete with neck cord and belt clip. Tiny size, only $2\frac{1}{4}$ "x $\frac{3}{4}$ " diameter. Shpg. wt., 1 lb.

57 S 118. \$5 Monthly..... 61.74

MODEL 647A. Extremely small dynamic mike. Just right for concealment and freedom of hands. Weighs only 2 oz. (less cable). Omnidirectional. 60-12,000 cps. Output, -58 db. 150 ohms or high Z. TV-gray. 18-ft. 2-conc. cable. With neck cord. $2\frac{1}{4}$ "x $\frac{3}{4}$ ". Shpg. wt., 1 lb.

57 S 264. \$5 Monthly..... 48.98

MODEL 924. Small, crustal omnidirectional mike with wire-mesh head acoustically treated against wind and moisture. 60-8000 cps. Output, -60 db. High imp. Strain-relieved 18-ft. cable. $3\frac{1}{8}$ "x $1\frac{1}{4}$ ". 8 oz.

57 S 447..... 11.98



Choice Selection of Top-Quality Communications Microphones

DESIGNED FOR CB AND HAM COMMUNICATIONS



Model
602E

Models
714SR
717

Model
20SSTCKK

MODEL 602E. Differential dynamic mike for 2-way radio, mobile P.A. and other uses demanding noise cancellation and high articulation. Press-to-talk DPDT switch controls mike and relay. 100-7000 cps. Output, -55 db. High impedance. 6-ft. coiled cable. Black phenolic case. With mounting bracket. $2\frac{1}{4}$ "x $2\frac{1}{4}$ ". Shpg. wt., 10 oz.

57 S 034. \$5 Monthly..... 33.81

MODEL 20SSTCKK. Differential carbon mike for aircraft. Articulation 97% under quiet conditions; 88% under 115 db ambient noise. Blast proof, shock resistant. Output, -50 db. 100 to 4000 cps. High imp. DPDT press-to-talk switch. 6-ft. cable and mounting bracket. $2\frac{1}{4}$ "x $2\frac{1}{4}$ ". Wt. 1 lb.

57 S 035. \$5 Monthly..... 26.46

MODEL 714SR. High-output, ceramic microphone for Ham radio, Citizens Band and paging use. Exceptional speech intelligibility. Response, 60 to 7000 cps. Output, -55 db. High impedance. Press-to-talk DPDT switch controls mike and relay. Beige Cyclocac case is tough—ensures maximum durability. 10" (retracted) 3-conductor coiled cable. With hang-up bracket. $2\frac{1}{2}$ "x $1\frac{1}{2}$ "x $3\frac{3}{8}$ ". Shpg. wt., 1 lb.

57 S 167..... 9.98

MODEL 717. Similar to above, but specially designed as noise-cancelling microphone to provide highly intelligible speech in situations where background noise is a problem. Shpg. wt., 1 lb.

57 S 433..... 11.98

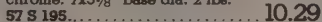
PROVIDE UNIFORM RESPONSE FROM ANY REACTION—SOLVE PLACEMENT PROBLEMS

641. Low-cost dynamic mike for communications, P.A., home rec. etc. Response, 70 to 10,000 cps. level, -57 db. 6-ft. cable. On-off two-tone case of chrome-plated die-cast and gray plastic. 5/8"-27 thread. 1" diameter. Shpg. wt., 1 lb. **20.58**

Low Impedance..... **20.58**

High Impedance..... **20.58**

MODEL 911. Crystal mike for P.A., home recording, etc. Directional at higher frequencies. 50-9000 cps. —50 db. High imp. 18-ft. cable. Upright swivel mount. On-off switch. Chrome-plated. $\frac{5}{8}$ "-27 thread. $2\frac{3}{8}$ x $3\frac{1}{2}$ x $6\frac{3}{4}$ ". Shpg. wt., $2\frac{1}{2}$ lbs.



MODEL 552A TRANSFORMER. (Not illustrated.) To connect long-line, low-impedance (50, 150, 250 and 500-ohm) mikes to high-impedance. Response, ± 1 db, 40 to 20,000 cps. With MC-4 input connector and 2-ft. cable. $2\frac{7}{8} \times 1\frac{15}{16}$ " . 1 lb.
\$75 210. **10.29**

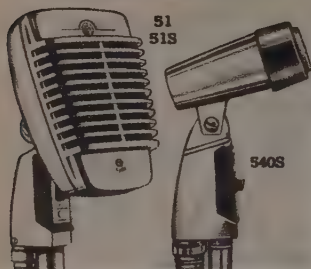


MODEL CM-10A. Same as above but one mike only for monophonic recording, P.A., etc. 7' cable and phone plug. Less CMS-10 stand, lower left. 2 lbs.

57 S 178.....	10.29
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SHURE

General-Purpose Dynamic Mikes



MODEL 540S "SONODYNE II." All-directional 360° microphone. Fine for recording applications and sound systems. Has on-off switch. Response switchable: 60-10,000 cps for music, 150-6500 cps for speech. Dual impedance: 50-250 ohms and high impedance. Outputs: Hi-Z, —55 db; Low-Z, —57 db. Chrome and black. Swivel mount; $\frac{5}{8}$ "-27 thread. 15' 2-cond. cable. $3\frac{5}{8}$ "x1 $\frac{1}{16}$ " 2 $\frac{1}{4}$ lbs. 57 S 132.....

29.37

MODEL 51 "SONODYNE." Semi-directional, general-purpose dynamic mike. 60-10,000 cps. 3-way impedance switch. Output levels: 35-50 ohms, —53 db; 150-250 ohms, —52.5 db; high-impedance, —52 db. Satin chrome. Swivel mount. 15' 2-cond. cable. $3\frac{3}{8}$ "x3 $\frac{1}{8}$ "x $\frac{1}{2}$ ". 3 $\frac{1}{2}$ lbs. 57 S 228.....

29.11

MODEL 51S. Same as above, but with on-off switch. Wt., 3 $\frac{1}{2}$ lbs. 57 S 136.....

30.28



WORLD-FAMOUS
"UNIDYNE"
MIKES

MODEL 55S "UNIDYNE." Splendid for theaters and deluxe sound systems. Dynamic element provides 50-15,000 cps response. Cardioid pickup pattern. 3-way impedance switch. Output levels: 35-50 ohms, —54 db; 150-250 ohms, —55 db; hi-Z, —57 db. Satin chrome. Swivel mount; $\frac{5}{8}$ "-27 thread. 18' 2-cond. cable. $7\frac{7}{8}$ "x2 $\frac{3}{4}$ "x3 $\frac{1}{16}$ ". Shpg. wt., 4 $\frac{1}{4}$ lbs. 57 S 234. \$5 Monthly.....

48.80

MODEL 55SW. As above, with on-off switch. 57 S 135. \$5 Monthly.....

49.98

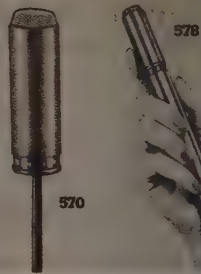
MODEL 556S. Deluxe version of 55S. Closer tolerances for wider response (40-15,000 cps). Shock mounted. 20' 2-cond. cable. 4 $\frac{1}{2}$ lbs. 57 S 235. \$5 Monthly.....

79.38

MODEL 54S "UNIDYNE III." Slender, cardioid-pattern dynamic. 50-15,000 cps. Dual imped. Outputs: 50-250 ohms, —57 db; hi-Z, —55 db. Chrome, black. Swivel adapter. 18' 3-cond. cable. $5\frac{1}{8}$ "x1 $\frac{1}{4}$ " dia. 3 lbs. 57 S 161. \$5 Monthly.....

49.98

57 S 133. Model 545S. As above, with on-off switch and permanently attached swivel. 52.89



NEW MODEL 570 LAVALIER. Professional-quality all-directional phone for use on TV, lectures. Small size and light weight for maximum mobility. Dynamic element gives 50-12,000 cps response. 8-ohm impedance. Output, —50 db. "Flex-Grip" lavalier assembly includes adjustable cord and belt clip. 30-ft. 2-conductor cable. Gray. $2\frac{1}{2}$ "x $\frac{3}{4}$ " dia. Shpg. wt., 11 oz. 57 S 443. \$5 Monthly.....

5

NEW MODEL 578 "OMNIDYNE." Directional dynamic microphone outstanding for use where high fidelity sound reproduction is required. Frequency response, 50-17,000 cps. Dual impedance—200 ohms and high impedance. Output levels: Hi-Z, —50 db; Low-Z, —60 db. Has on-off switch. With swivel stand add $\frac{5}{8}$ "-27 thread. 18-ft. 3-cond. cable. Satin chrome finish. $7\frac{7}{8}$ "x $\frac{3}{4}$ "x $\frac{1}{2}$ ". Shpg. wt., 11 oz. 57 S 442. \$5 Monthly.....

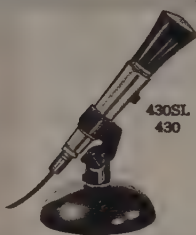
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SHURE

Magnetic, Crystal, Ceramic Mikes



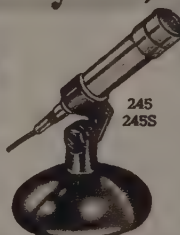
275S
On S-36B
Base



430SL
430



420



245
245S



710A

715

MODEL 275S. All-directional ceramic mike. 40-12,000 cps. High imp. Output: —59.5 db. On-off switch; lavalier cord, stand adapter. 7-ft. cable. $4\frac{3}{4}$ "x1 $\frac{3}{8}$ " dia. Shpg. wt., 1 lb. 57 S 284.....

8.81

MODEL 430SL. Controlled magnetic, all-directional mike for voice or music. Response, 60-10,000 cps. Dual impedance: 150-250 ohm and high imp. Output: —52 db for both. Press-to-talk mike switch, plus relay switch. With 15-ft. 3-conductor cable; S38B stand; A-25B adapter. $6\frac{9}{16}$ "x1 $\frac{3}{16}$ " dia. Shpg. wt., 2 $\frac{3}{4}$ lbs. 57 S 283. \$5 Monthly.....

29.37

MODEL 430. As above, less relay switch, S38B stand. Wt., 2 $\frac{1}{4}$ lbs. 57 S 213. \$5 Monthly.....

22.64

MODEL 420. Controlled magnetic, lavalier all-directional mike. Detachable from lavalier cord and belt clip (included) for use as hand-held mike. 60-10,000 cps. Dual impedance: 150-250 ohms and high imp. Output: —52 db for both. 20-ft. 2-cond. cable. Gray polystyrene case. $3\frac{1}{16}$ "x1 $\frac{3}{4}$ " dia. Shpg. wt., 1 $\frac{3}{4}$ lbs. 57 S 212.....

17.64

MODEL 245 "UNIPLEX." Cardioid-pattern ceramic mike. Former at a low price. 50-7000 cps. High imp. Output: —59 db cable; plug; swivel adapter. $4\frac{3}{4}$ "x1 $\frac{1}{8}$ " dia. Wt., 1 $\frac{1}{4}$ lb. 57 S 285. \$5 Monthly.....

20

57 S 286. Model 245S. As above, with on-off switch.....

1

MODEL 777 "SLIM-X." Similar in style to 245, all-directional ceramic mike. 60-10,000 cps. High impedance. —62 db. Chrome finish. detachable 7' cable; neck cord. 4 $\frac{1}{2}$ "x1" dia. Wt., 1 lb. 57 S 252.....

1

57 S 253. Model 777S. As above, with on-off switch.....

MODEL 710A "REX." Semi-directional crystal mike. Well-suited Ham rigs, etc. Press-to-talk switch. 60-9000 cps. High imp. Output: —50 db. 7' cable. $3\frac{1}{4}$ "x2 $\frac{1}{16}$ "x1 $\frac{1}{8}$ ". Wt., 1 $\frac{1}{4}$ lbs. 57 S 231.....

MODEL 715 "STARLITE." High-output crystal—splendid for recording. Built-in retractable stand. 50-10,000 cps. High imp. Output: —60 db. 5' cable. $3\frac{1}{8}$ "x2 $\frac{3}{8}$ "x1 $\frac{1}{4}$ ". 1 $\frac{1}{2}$ lbs. 57 S 215.....

57 S 215.....

57 S 215.....

57 S 215.....

57 S 215.....

57 S 215.....

57 S 215.....

57 S 215.....

Ham and Paging Microphones



DEL 201. Ceramic, all-directional. 200-4000 cps. Hi-Z. —55 db. ch; hang-up bracket. 5' 3-cond. cable. $4 \times 2\frac{1}{2} \times 1\frac{1}{8}$ ". 1 lb. **10.58**
281. Model 401A. Above, but controlled-magnetic. 1 lb. **12.94**

488A. Controlled magnetic noise-cancelling mike. Ideal for mo. 200-4000 cps. High imp. —18 db. Push-to-talk relay lip guard; hang-up-bracket. 3-cond. coiled cable. $3\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{8}$ ". Wt., 1 lb. **33.81**
488B. As above, but 150-250 ohms. Output: 7 db. Wt., 1 lb. **33.81**

MODEL 404C. Controlled magnetic noise-cancelling mike for P.A., mobile use, Ham operation, etc. Grip-to-talk switch. 200-8000 cps. High impedance. Output: —80.5 db. Hang-up bracket; $5\frac{1}{2} \times 4$ -cond. cable. $3\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{3}{8}$ ". 1 lb. **19.40**
57 S 141. **19.40**
57 S 140. Model 404B. As above, but low impedance. 150-250 ohms. Output: —60 db. Wt., 1 lb. **19.40**



NEW MODEL 450 "DISPATCHER." Controlled-magnetic mike that's ideal for paging use. Modern two-tone gray "Armo-Dur" case. Adjustable stand height. Push-to-talk, lockable mike-relay switch. 100-9000 cps. Dual impedance. Outputs: High-Z, —52.5 db; 50-250 ohms, —51 db. 7' 4-cond. (2 shielded) cable. $10\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{8}$ ". Shpg. wt., $3\frac{1}{2}$ lbs. **57 S 444. \$5 Monthly..... 29.11**

57 S 441. Model 444 Ham Mike. As above, but Hi-Z only. Output, —52.5 db. Response, 300-3000 cps. Separate switch for VOX operation. Shpg. wt., $3\frac{1}{2}$ lbs. **24.99**

MODEL 520SL "DISPATCHER." Controlled magnetic mike. Grip-to-talk, lockable mike-relay switch. Response, 100-9000 cps. High impedance. Output: —52.5 db. Chrome, green. 7' 2-cond. cable. $9\frac{3}{8}$ " high, 5" base. Wt., $3\frac{1}{2}$ lbs. **57 S 233. \$5 Monthly..... 26.46**

SHURE MICROPHONE ACCESSORIES

38B BASE. For 777, 245, 275S and 430 series mikes. $1\frac{1}{2}$ lbs. **2.65**
25B SWIVEL 90° ADAPTER. For 777 mikes. $\frac{5}{8} \times 27$ thread. $\frac{1}{2}$ lb. **3.23**
33 BASE. For any mike with A-25 swivel Adapter, above, or 545, 556S and mikes without adapter. $1\frac{1}{2}$ lbs. **8.82**

D A86A TRANSFORMER. For running lines from low-impedance microphones to high-impedance amplifier inputs. Matches 35-50 or 150-250 ohms. Response, ± 1 db. 20-20,000 cps. $2\frac{1}{2} \times 1\frac{1}{8}$ ". 1 lb. **10.29**
57 S 107. 10.29
E S-36A STREAMLINED DESK MOUNT. Fits 55S(W), 51(S), 545S, 540S. Shpg. wt., $1\frac{1}{4}$ lbs. **3.82**
57 S 191. 3.82



CONNECTORS, MIXERS, CABLES



SWITCHCRAFT CONNECTORS. Single-types. Std. $\frac{5}{8} \times 27$ thread. 2501 fits P.A. amplifiers (except KN-3050—J). To splice 2 cords, use two as plugs or jacks). Av. wt., 3 oz.

P.	Type	Fig.	Description	E.A.
15	2501F	F	Plug or Jack	35¢
16	2501M	G	Plug	26¢
17	44	H	Phone Plug Adapt.	30¢

HT-CORD PLUGS. Switchcraft 3-audio connectors. Clamps, socket in Push-action, latch lock. 15 amps. 4 oz.

P.	Type	Fig.	Descript.	E.A.
1	A3F	J	Fem. Socket	1.35
2	A3M	K	Male Pin	1.14

EXTENSION CABLES. 2-cond, shielded. 87AU87 is Fig. L. 91BU92 is Fig. M. Shpg. wt., $1\frac{1}{4}$ lbs.

P.	Type	Description	EACH
16	87AU87	75-MCIF ea. end	2.94
18	91BU92	Switchcraft A3F, A3M plugs	7.35

N MINI-MIX AUDIO MIXERS. Accept two high-impedance sources. Separate gain controls. $2\frac{1}{2} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". 4 oz.

57 S 112. Phone jack input and plug output for standard jacks. **4.67**
57 S 114. As above, but with longer output for recessed jacks. **5.26**
57 S 113. Male inputs, female outputs for $\frac{5}{8} \times 27$ screw-type connector. **4.67**
57 S 404. For late model Wollensak and Reverse tape recorders. **5.26**

BELDEN SHIELDED MIKE CABLE. All are 1-conductor, high-impedance types, except *8422 and 8428 which are low-impedance types. Av. shpg. wt. per 100', 4 lbs.

Mfr's Type	O.D. Inches	Stock No.	Standard Spools 50' EA.	100' EA.
8401	.200	47 TT 564	2.30	4.21
8410	.245	47 TT 444	3.82	7.20
8411	.144	47 TT 604	1.71	3.09
8422*	.231	47 TT 456	3.18	5.73
8428*	.295	47 TT 468	...	10.29



SWITCHCRAFT STEREO MIXERS

MODEL 306. 4 monophonic channels convert to 2 stereos. Four input jacks on rear panel. High-impedance circuitry. Two phono jacks for output to amplifier or tape recorder. $2 \times 3 \times 6$ ". Wt., $1\frac{1}{2}$ lbs. **57 S 171..... 13.23**

MODEL 306TR. As above, but with two battery-operated transistor amplifiers. Battery included. Shpg. wt., $1\frac{1}{2}$ lbs. **57 S 172. \$5 Monthly..... 22.05**

SWITCHCRAFT MONO MIXERS

MODEL 301. (Not illustrated.) Similar to 306. Permits mixing four signals into a single output. Accepts std. 2-cond. phone plugs—std. phono jack output to recorder or amplifier. $2 \times 3 \times 6$ ". $1\frac{1}{2}$ lbs. **57 S 169..... 11.47**

MODEL 301TR. Above, but battery-powered transistor amp. With battery. $1\frac{1}{2}$ lbs. **57 S 170..... 17.64**
41 H 341. 36" Connector Cable. Pin plug one end, phono plug other. 4 oz. **88¢**

ASTATIC

Low-Cost Microphones



A 300 Series
A7 Stand



B 77



C JT-30



D D-104

E 200
Series



SLIM ALL-PURPOSE MIKES

A Non-directional mikes for Citizens Band, Ham, P.A., taping, other uses. Have off-on switch, except 331 has momentary "On" spring-return switch. With lavalier and adapter for $\frac{5}{8}$ "-27 thread stand. Less stand. $4\frac{1}{2} \times 1\frac{1}{4}$ ". 1 lb.

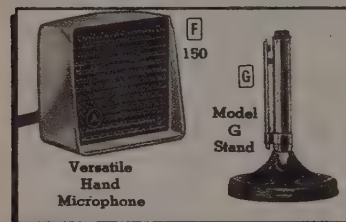
MODEL 332 CRYSTAL. 30-15,000 cps. Output —54 db. Hi-Z. 8-ft. cable. **10.52**

MODEL 331 CERAMIC. Has press-to-talk switch with provision for relay control. 300-5000 cps. Output, —56 db. High-impedance. Black and chrome. With hang-up bracket and 8-ft. coiled cord. **10.52**

MODEL 335H DYNAMIC. 60-12,000 cps. Output, —56 db. High imp. Gray. **15.58**

MODEL 335L DYNAMIC. As above, but 30-50 ohms impedance. —57 db. **13.82**

A-7 DESK STAND. For 330 Series mikes above. Black plastic. 5 oz. **1.44**



F 150

G
Stand

Versatile
Hand
Microphone

DELUXE CARDIOID MIKE

B **MODEL 77.** A fine dynamic cardioid microphone. Features extremely high front-to-back cancellation of 18 db for minimum pick-up from the rear—virtually eliminates feedback. Has suspended dynamic cartridge. Response, 30-15,000 cps. "Pop" and "blast-proof" "Mylar" diaphragm. Output, —52 db at 50 ohms. Switch selects 30-50 ohms, 150-250 ohms and high impedance. $\frac{5}{8}$ "-27 thread. Satin chrome. $8 \times 2\frac{1}{2} \times \frac{5}{8}$ ". With 20-ft. 2-conductor shielded cable. Shpg. wt. 3 lbs. **48.51**

57 S 177. \$5 Monthly.

ECONOMY CRYSTAL MIKES

C **MODEL JT-30.** Low priced, general-purpose microphone. Excellent for CB, Ham, P.A., recording, etc. High impedance. With removable hand grip and interlocking desk-type stand. Detaches from hand grip for mounting on standard floor stands. 30-10,000 cps. Non-directional. Output level, —49 db. Gray Hammerlin finish; chrome grille. 8" high. 8-ft. shielded cable. Shpg. wt. $2\frac{1}{2}$ lbs. **10.82**

F **MODEL 150 CRYSTAL.** High-output mike offering semi-directional pickup pattern. Frequency response, 30-10,000 cps with 5-megohm load resistance. Output level, —44 db. Only $2\frac{3}{16} \times 2\frac{3}{16} \times 1\frac{1}{4}$ ". High-impact gray plastic case. Gold metal grille. 5-ft. single-conductor shielded cable. Shpg. wt. 8 oz. **3.82**

MODEL 151 CERAMIC. Same mike as above, but with —48 db output; 30-8000 cps response. 8 oz. **3.82**

57 S 130.

World-Famous Mikes by TURNER

H **MODEL 58.** A dynamic, lavalier mike for use where freedom and mobility are important. Only 4" long and weighing just $3\frac{1}{2}$ oz., mike hides easily behind necktie, corsage or handkerchief. Frequency response, 60-13,000 cps. Hi-Z output level, —60 db. Output is switchable from 150 ohms to high-impedance. Essentially non-directional. Non-reflecting gray finish. With lavalier assembly and 25-ft. 3-cond. cord. Shpg. wt. 1 lb. **33.52**

J **MODEL 254C.** Perfect ceramic microphone for CB base stations. Has both touch-bar and Lever-Lock on-off switches. Same specs as 350C. Relay-wired. With 7-ft. cable. Shpg. wt. $2\frac{1}{2}$ lbs. **14.10**

57 S 292. MODEL P254C. As above, plus push-to-talk button. **15.29**

MODEL JT-30F. Like JT-30, but less head and base—head only. $\frac{5}{8}$ "-27 thread. S wt. $1\frac{1}{2}$ lbs. **9**

"PREMIER" CRYSTAL MIKE

D **MODEL D-104.** High-impedance for CB or Hams. 30-7,500 cps response "peaked" for maximum speech intelligibility. Non-directional. Output level, —45 db. Chrome. With $\frac{5}{8}$ "-27 thread adapter, 5-ft. shielded cable. $1\frac{3}{4}$ lbs. **18**

57 S 225.

57 S 401. Repl. Cartridge. 2 oz.

CRYSTAL MIKE AND BASE

E **MODEL 200.** All-purpose crystal for CB, Hams, paging, etc. Response 30-10,000 cps. Non-directional. Output level, —50 db. High-impedance. Detachable has $\frac{5}{8}$ "-27 thread. Gold and chrome. $8 \times 4\frac{1}{2} \times 8\frac{1}{2}$ ". 8-ft. single-conductor shielded cable. Shpg. wt. $1\frac{1}{4}$ lbs. **11**

MODEL 200-S. As above, but with on-off switch. Shpg. wt. $1\frac{1}{4}$ lbs. **1**

MC-151 REPLACEMENT CARTRIDGE

Astatic crystal mikes, Models CX, CX-1, 241, JT-30, JT-30F, JT-40, and T-3. S wt., 3 oz. **4**

G **MODEL G DESK STAND.** Has built-in grip-to-talk on-off switch, with slider for locking in "on" position. For use with D-104, 10-D, 77, and other mikes. Standard $\frac{5}{8}$ "-27 thread. Chrome and Hammerlin finish. With 6-ft. cable. Shpg. wt. $2\frac{1}{4}$ lbs. **14**

57 S 185.

K **NEW! MODEL 355C CERAMIC.** Latest CB mike design. New, large grip-to-talk switch is convenient to use, comfortable to hold. Response, 80-7000 cps. Output level, —50 db. Tough plastic case. 5-ft. coiled cable. Shpg. wt., 1 lb. **7**

L **MODEL 350C.** Push-to-talk ceramic for mobile use. 80-7000 cps. Non-directional. Output, —54 db. Hi-Z. Coiled cable extends to 5'. Has hanger button; bracket. Relay-wired. Plastic case, $3\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". 1 lb. **7**

M **MODEL 708.** Deluxe crystal mike specially designed for recording. Flip hand, or rests atop table. 60-10,000 cps. Output, —54 db. Chrome finish. With cable, phono plug, adapter. 1 lb. **7**

57 S 293.



NEW!

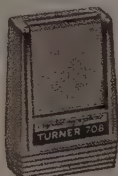
K 355C



L 350C



H 58



M 708



J 254C

ATLAS Microphone Stands and Booms



Disassembles!

B CS-33

C MS-25

D MS-4

E MS-11S

F MS-10C
Base has self-leveling pads.

Floor stands with "Full Grip" clutch for secure hand grip. Won't slip or jam.

CS-52 FLOOR STAND. Three-section portable stand is easily assembled. Chrome-plated tube adjusts from 34" to 66". Base finished in gray shrivel; dia. 10". 5/8"-27 thread. 9 lbs. 50-2. **6.91**

"TAKE APART" TYPE FLOOR STAND. Fully collapsible, 3-section stand. Chrome-plated tube. Adjusts from 26" to 66". 5/8"-27 thread. Chrome plated. Shpg. 50-2. **8.53**

25 PROFESSIONAL FLOOR STAND. Lock Cushion™ controls drop, pre-tilt and mike damage. Adjusts from 26" to 66". Base dia., 17". Chrome and gray base; chrome-plated tube. 5/8"-27 thread. Wt., 25 lbs. **57 SU 330-2. 16.46**

MS-4 TELESCOPING FLOOR STAND. Three sections make frequent, wide adjustments easy—from 26" to 61". Perfect for schools, etc. Base finished in gray shrivel; dia., 10". Chrome-plated tube. 5/8"-27 thread. Shpg. wt., 14 lbs. **57 SX 270-2. 9.26**

MS-11S AUTOMATIC FLOOR STAND. Press "Sleeve Action" control, and telescoping tube section lowers to desired position. Adjustable from 35"—68". Chrome. Base dia. 10". 5/8"-27 thread. 16 lbs. **57 SX 271-2. 14.70**

MS-10C FLOOR STAND. Excellent for average weight mike. Clutch for secure hand grip. Adjusts from 35" to 64". Gray base has self-leveling, shock absorbing pads. 2-section chrome tube. Base dia., 10". 5/8"-27 thread. 13 lbs. **57 SX 325-2. 5.88**

MS-11C. Same stand as above, but with all chrome finish. 16 lbs. **57 SX 326-2. 8.09**

BB-1 "BABY BOOM" STAND ATTACHMENT. Converts any floor stand with 5/8"-27 thread to boom-type stand. 5-ft. circle positioning; adjustable counter-balance. Chrome. 32" long. 6 lbs. **57 SX 328. 4.70**

DESK, BANQUET AND SWITCHBOARD MICROPHONE STANDS

DESK STAND. Attractively styled—chrome-plated tube. Base finished in gray shrivel; dia. 4"; tube 4" high. 5/8"-27 thread. 2 lbs. **57 S 205. 3.23**

US-2 MULTI-PURPOSE STAND. Floating vertical (180°) and rotation (360°) movement. Arm, 12 3/4" long. Base diameter, 2 5/8". Chrome. 5/8"-27 thread. 2 lbs. **57 S 273. 5.59**

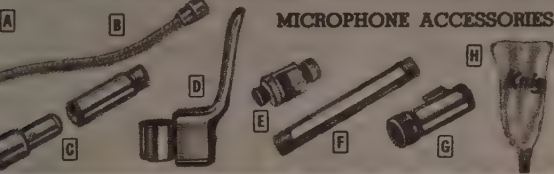
SB-1 SWITCHBOARD STAND. Sits atop switchboard. Flexible arm is 12" long. 5/8"-27 thread. Heavy cast-iron base, 9x6 1/2". Shpg. wt., 13 lbs. **57 S 145. 9.26**

NS-1 NECK AND CHEST HOLDER. Neck cord, non-rolling chest support and removable goose-neck holder. 10 oz. **57 S 183. 3.23**

DESK STAND. Chrome-plated tube. Base finished in gray shrivel; dia. 4"; tube 4" high. 5/8"-27 thread. 2 lbs. **57 S 205. 3.23**

ADJUSTABLE DESK STAND. Adjusts from 8"-13". 2-section chrome-plated tube. Gray base dia., 6"; pads. 5/8"-27 thread. 3 lbs. **57 S 273. 5.59**

DESK STAND. Cable fits in slot. Chrome trim. Gun-metal enamel. 10 oz. **57 S 183. 3.23**



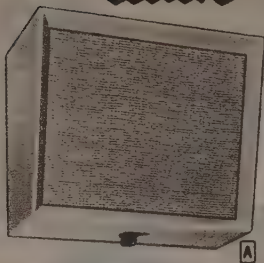
MICROPHONE ACCESSORIES

No.	Fig.	Description	Wt.	EACH
96	A	"V" Mike Connector	2 oz.	.99
89	B	Flexible 13" Gooseneck	1 lb.	1.62
86	B	As above, 19" long	1 1/2 lbs.	2.35
87	C	Snap-on Mike Attachment	1 lb.	1.62
7	D	Cable Hanger; fits all stems 7/8" to 1 1/4" in diameter	1/2 lb.	1.62
46	E	Mike Volume Control; Hi-imp.	6 oz.	4.17
6	F	3" Extension Rod; 5/8"-27 ends	3 oz.	.38
5	F	As above, 6" long	4 oz.	.44
0	G	Push-to-Talk Switch with lock	6 oz.	1.98
15	H	"Save-Ur-Mike" Plastic Cover	2 oz.	.69
90	J	Bracket Clamp; 6" stem	1 lb.	2.06
04	J	Gyromatic Mike Lock Swivel	1 1/2 lbs.	2.79

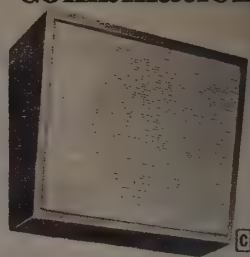
ATLAS MIKE STAND ADAPTERS. For use with most desk and floor-type microphone stands. All adapters are heavy-duty chrome-plated units. Shpg. wt.: Models AD1, AD2, AD3, AD4 and ADS, 2 oz.; AD11 and AD12, 6 oz.

Stock No.	Type	Fig.	Description	EACH
57 S 108	AD1	L	For adapting RCA mikes. 1/2" male to 3/8"-27 female	53¢
57 S 198	AD2	K	1/2" pipe female to 3/8"-27 male.	38¢
57 S 199	AD3	M	1/2" pipe female to 3/8"-27 female.	38¢
57 S 201	AD4	A	3/4" long. 3/8"-27 male coupling.	20¢
57 S 202	AD5	M	3/8"-27 to 3/8"-27 female coupling	38¢
57 S 104	AD11	P	Mike base flange. Female. 3/8"-827.	44¢
57 S 103	AD12	N	Mike base flange. Male. 3/8"-27.	44¢

Utah Deluxe Speaker-Baffle Combinations



With Famous Dual-Diameter Speakers
—For Twice the
Sound Per Watt!



A 8" WALL SPEAKER-BAFFLE COMBINATION

Rugged, tastefully styled, and completely wired—fine choice as extension speaker for recreation room or den. Dual-diameter 8" speaker with 10-watt capacity delivers twice the sound per watt. L-pad volume control. 8-ohm impedance. 9½x12x6". In mahogany, walnut or blonde—specify finish. Shpg. wt., 3 lbs.

57 DX 552C 13.95

70.7-VOLT SPEAKER-BAFFLE. Above, but for 70.7-v. systems. With 10-watt 70.7-v. transformer, L-pad. 7 lbs.

57 DX 553C. Specify finish..... 15.95

8-OHM SPEAKER ALONE. With wired L-pad on 18" cable. 3 lbs.

57 D 570 6.65

70.7-V. SPEAKER. As above, but for 70.7-v. systems. 4 lbs.

57 D 571 8.65

C NEW LOW-COST WALL SPEAKER-BAFFLE

All-wood construction. Excellent as an extension speaker or where background music is desired. Utah 8" speaker has screw terminals. 8-ohm impedance. 6-watt capacity. Mounting hardware included. In blonde or walnut—specify. 9½x12x5". 5 lbs.

57 DX 843C 9.95



- ✓ 2 Full-Range 8" Speakers
- ✓ 180° Sound Dispersion
- ✓ Tapered Enclosure

NEW TP-88 WIDE-ANGLE SPEAKER-BAFFLE

Unique design uses two 8" shallow-cone speakers mounted at oblique angles to each other—distributes music to all corners of the room. Dual-diameter designed speakers deliver twice the sound per watt. 8-ohm impedance. 15-watt capacity. Enclosure measures only 4" deep at center—tapers to 2" at outside edges. Attractively styled in durable ¾" plywood. Mounting hardware, screw terminal board included. Available in walnut or blonde—specify. 10x20x4". Shpg. wt., 6 lbs.

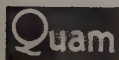
57 DX 841C. \$5 Monthly 19.90

UNIQUE CEILING BAFFLE-SPEAKER

Eliminates the need of making ceiling cut-outs. fine-performing speaker-baffle combination measures only 2½" deep—quickly mounts on ceilings ¾" to 1" thick, with mounting hardware supplied. Perfect for tiled or regular ceilings in homes, offices, restaurant department stores, etc.; gives excellent reproduction of both voice and music. Uses the unique 8" shallow speaker developed by Utah to save space while assuring excellent frequency response and sensitivity. Extra-shallow cone and basket design makes possible a total depth of only 2½", without sacrificing performance.

In addition, the speaker has efficiency and power boosting dual-diameter design—gives increased volume in custom installations due to lower sound pressure requirements. Delivers twice the sound per watt. Capacity: 6 watts. Impedance: 8 ohms. Size: 12½x12½x2½". Deep. Handsomely styled in beige. Finish may be repainted to match any color scheme, or contrasted with smart contemporary accent. Shpg. wt., 7 lbs.

57 DX 844 9.95



P.A. SPEAKERS and LINE TRANSFORMERS

LINE-TO-VOICE-COIL TRANSFORMERS

Economically priced transformers constructed of quality materials. 57 D 820 and 57 D 821 are 70.7 v.; 57 D 822 and 57 D 823 are 25 v. Secondary impedances 4, 8, 16 ohms. Shpg. wt., 1 lb.

Stock No.	Watt Taps	Size	1-11, EA.	12-UP, EA.
57 D 820	5, 2.5, 1.25, .62, .31	1½x2½"	1.59	1.45
57 D 821	10, 5, 2.5, 1.25, .62	3½x5½"	1.69	1.57
57 D 822	5, 2.5, 1.25, .62, .31	5½x7½"	1.59	1.47
57 D 823	10, 5, 2.5, 1.25, .62	7½x7½"	2.24	2.05

QUAM SPEAKERS WITH ALNICO V MAGNET

All 8-ohm impedance. With transformer mounting bracket. 8A6P is weather-proofed. 12A10PA has ring-type magnet.

Stock No.	Mfr's Type	Size	Watts	Magnet Wt.	Lbs.	EA.
57 D 650	8A21PA	8"	8	2.15 oz.	1½	4
57 D 651	8A31PA	8"	10	3.16 oz.	2	5
57 D 654	8A4PA	8"	12	4.64 oz.	3	6
57 D 655	8A6PA	8"	12	6.8 oz.	4	7
57 D 599	8A6PAOT	8"	12	6.8 oz.	4	8
57 D 039	8C10PA	8"	12	10.0 oz.	4	7
57 DX 536	12A31PA	12"	12	3.16 oz.	4	7
57 DX 537	12A4PA	12"	15	4.64 oz.	4	8
57 DX 538	12A6PA	12"	15	6.8 oz.	4	9
57 DX 539	12A10PA	12"	25	10.0 oz.	4	10
57 DX 038	12C10PA	12"	15	10.0 oz.	4	9



Model PB

A

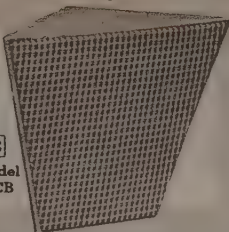
Models DWB-WB

B



C

Model SCB



D



High-Efficiency Baffles by

Argos

A "PRESTIGE" WALL-MOUNTED BAFFLES

rectangular shape—ideal where extra air volume and larger volume are needed. Designed to give almost twice the internal volume for far better tone. Include "Speedy Mounting" clips for easy hanging. Wood-grained pyroxylin-covered with plastic grille. In walnut or blonde—specify choice.

Stock No.	Model	Size	For	Lbs.	1-5, EA.	6-UP, EA.
527C	PB-8A	10 5/8 x 14 x 7"	8"	4	5.73	5.42
528C	PB-12A	13 5/8 x 18 1/4 x 9"	12"	7	8.09	7.65

B DELUXE WOOD WALL BAFFLES

Beautifully finished baffles for the finest surroundings—made to elegant anywhere. Crafted of genuine birch with durable, no-clean plastic grille. All hardware and mounting clips included. Available in walnut or blonde—specify choice.

Stock No.	Model	Size	For	Lbs.	1-5, EA.	6-UP, EA.
523C	DWB-8A	10 1/2 x 9 3/4 x 6 1/2"	8"	3	5.88	5.60
524C	DWB-12A	14 x 13 5/8 x 9 1/4"	12"	5	8.23	7.80

C LOW-COST WALL-MOUNTED BAFFLES

pyroxylin covered baffles. Can be washed or easily repainted. were included. In walnut or blonde—specify choice.

Stock No.	Model	Size	For	Lbs.	1-5, EA.	6-UP, EA.
590C	WB-4/5C	6 1/2 x 6 1/4 x 4"	4-5"	1 1/2	2.89	2.73
592C	WB-6C	8 1/2 x 7 1/2 x 5"	6"	2	3.53	3.34
591C	WB-8C	10 1/2 x 9 3/4 x 6 1/2"	8"	3	4.22	3.98
526C	WB-12C	14 x 13 5/8 x 9"	12"	5	5.73	5.42

D SLANTING-FRONT CORNER BAFFLES

"In" front goes on or off in seconds without front screws—cabinet mounts easily on wall with "Speedy Mounting" clips. terminals. Acoustic padding. Bass-reflex design enhances tone. Wood-grained pyroxylin-covered—easy to keep clean and looking. Walnut or blonde finish—specify choice.

Stock No.	Model	Size	For	Lbs.	1-5, EA.	6-UP, EA.
510C	SCB-8D	15 x 17 1/4 x 9"	8"	6	8.18	7.73
511C	SCB-12D	20 x 20 3/4 x 10 1/4"	12"	8	11.02	10.42

CEILING and WALL-MOUNTING BAFFLES BY... soundolier

MODEL 61-8 TRIM RING BAFFLE. Polished, 20-ga. steel. Flush mounting nut buckle or "give" when installed. Fits 8 1/2" ceiling hole. Use with 95-8 speaker (below, right). O.D. 12 3/4". For speaker, 1 lb.

548. 5-Up, EA. 2.59 1-4, EA. 2.95
838. 8" Speaker-Baffle Pkg. Transformer: 2/1/5 ohm, 70.7 v. taps. 3 lbs.
EA. 8.56 1-4, EA. 9.94

MODEL 67-8 LOUVERED BAFFLE. Welded construction—rattle-free. Res. 10 1/4" hole. Use with 95-8 enclosure. 12". Takes 8" speaker. 1 lb.

546. 5-Up, EA. 3.98 1-4, EA. 4.53

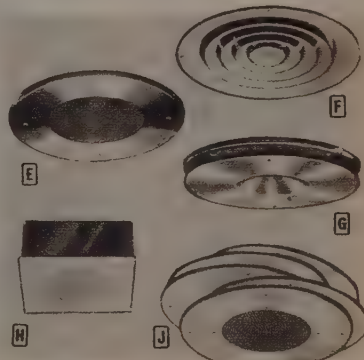
MODEL 68-8 LOW-CEILING BAFFLE. Crushed aluminum diffraction. Requires hole. Use with 95-8 enclosure. O.D. 12". Takes 8" speaker. 2 lbs.

547. 5-Up, EA. 6.07 1-4, EA. 6.93

H 169-8 TRIM SQUARE BAFFLE. 24-ga. steel. White. 10 1/2" sq. Fits 193-8 below. Takes 8" speaker. 1 1/4 lbs.
57 DX 554. 5-Up, EA. 2.08 1-4, EA. 2.37
57 DX 555. 193-8 Enclosure. Welded, undercoated. 9 5/8 x 9 5/8 x 3 3/4". 3 1/4 lbs.
5-Up, EACH. 3.47 1-4, EACH. 3.96

J 51-8 5-PC. TRIM RING BAFFLE PKG. Steel. For fast, flush installation. Paint any color to match decor. Requires 8 1/2" hole. Use with 95-8 enclosure. O.D. 12 3/4". Takes 8" speaker. 1 lb.
57 DX 502. Package of 5. 7.95
57 DX 837. 8" Speaker-Baffle Pkg. Transformer: 2/1/5 ohm, 70.7 v. taps. 3 lbs.
5-Up, EACH. 8.05 1-4, EACH. 9.18

95-8 PROTECTIVE ENCLOSURE. For newly-plastered or existing ceilings. Undercoated, jute lined. 9 7/8 x 4 1/4". 7 lbs.
57 DX 550. 5-Up, EA. 4.26 1-4, EA. 4.86



Get More for Your Money from Allied

ALLIED 257

As low as
\$6.61

NEW THINLINE
BAFFLES WITH
JENSEN SPEAKERS

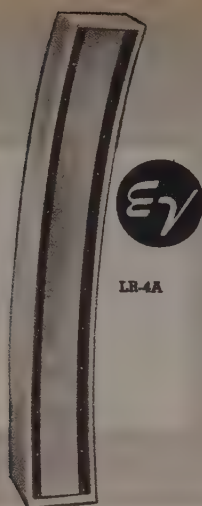
- ✓ Extra-Thin, with no Sacrifice for Heavy-Duty P.A.
- ✓ "Speedy Mounting" Clips Install Quickly, Hold Fast
- ✓ Wood-grained Easy-clean Pyroxylin Covering
- ✓ Models with L-pad and Transformer are Factory Wired

D Modern-looking, space-saving baffles—complete with powerful, heavy-duty ceramic-magnet speakers. Thin and wide to give a contemporary appearance. Wood-grained pyroxylin covering makes cleaning easy, provides lasting beauty, gives greater cabinet strength. Can be painted to match decor.

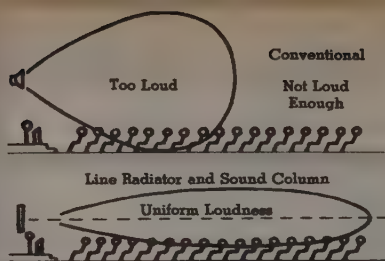
Speakers have convenient screw terminals. (Optional L-pad or L-pad and 70.7-volt transformer are installed and wired.) "Speedy Mounting" clips for fast, sure set-up. Series 208 have 8" speaker, 15-watt rating, 6-ohm ceramic magnet. Series 212 have 12" speaker, 15-watt rating, 10-ohm ceramic magnet. Model 108 has 8" speaker, 6-watt rating, 1-ohm Alnico V magnet—ideal for background music, or any use where high sound level is not required.

All speakers are 8-ohm impedance. Letter "L" with model number indicates L-pad; "T" indicates 70.7-volt transformer. Choice of walnut or blonde finish—specify.

Stock No.	Model No.	Baffle Size	Wt., Lbs.	EACH	
				1-5	6-UP
57 DX 505C	WB-108AS	9 1/2 x 12 x 4 1/4"	4	7.01	6.61
57 DX 506C	WB-208S	9 1/2 x 12 x 4 1/4"	5	10.19	9.68
57 DX 507C	WB-208SL	9 1/2 x 12 x 4 1/4"	5	12.59	11.97
57 DX 825C	WB-208SLT	9 1/2 x 12 x 4 1/4"	5	14.99	14.24
57 DX 508C	WB-212S	13 1/4 x 16 x 6 1/4"	8	14.85	14.10
57 DX 509C	WB-212SL	13 1/4 x 16 x 6 1/4"	8	17.25	16.39
57 DX 827C	WB-212SLT	13 1/4 x 16 x 6 1/4"	9	19.65	18.67



LR-4A



Consisting of several speakers arranged one above another in a special enclosure, the Sound Column or Line Radiator offers uniform loudness over a wide horizontal pattern. The people in back can relax and hear as well as those in front. Annoying feedback and reverberation effects are greatly reduced. Installation is simple—complicated planning and installation fees are eliminated. Anyone can install sound columns for any job, and get better coverage—in most installations—at lower cost.

UNIVERSITY
MODEL CS-4 →
NEW! ARGOS
SD-1060



Sound Columns and Line Radiators for Uniform Sound Level

E-V MODEL LR-4A CURVED LINE RADIATOR. Wide-range projector designed specifically to control feedback in difficult P.A. installations for natural sound reinforcement. May be hung in clusters. Twelve top-quality speakers provide a response of 150-15,000 cps. Dispersion: horizontal, 160°; vertical, 60°. Capacity, 25 watts. Impedance, 8 ohms. Neutral tan finish. Universal mounting brackets. 49x7x13". Wt., 25 lbs. Shipped express only.

57 DZ 036. \$5 Monthly.....73.50

E-V MODEL LR-4SA STRAIGHT LINE RADIATOR. Horizontal, 160°; vertical, 30°. Response, 150-15,000 cps. Capacity, 25 watts. Impedance, 16 ohms. 52x7½x4½". Wt., 19 lbs.

57 DZ 037. \$5 Monthly.....82.32

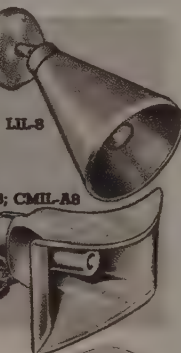
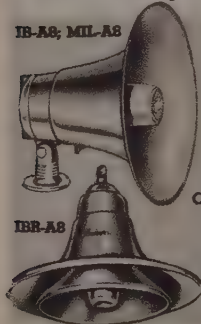
ARGOS SD-1060. Focuses sound for wide horizontal and narrow vertical sound projection pattern. Uses six speakers—excellent for school rooms, conference rooms, restaurants. Horizontal dispersion, 120°; vertical, 22°. Response, 200-10,000 cps. Power handling capacity, 30 watts. Impedance, 8 ohms. Paintable walnut pyroxy finish. Size, 30¼x7x3½". Shpg. wt., 14 lbs.

57 DX 877. \$5 Monthly.....39.

UNIVERSITY CS-4. "Acoustic Tapering" for uniform dispersion and response. Four 8" speakers; 70-17,000 cps. Dispersion: hor. 120°; vert. 22°. Power capacity, 80 watts. 8 ohms. Neutral finish. 40x10x7". 55 lbs. Shipped express only.

57 DZ 531. \$7 Monthly.....127.

IB-A8; MIL-A8

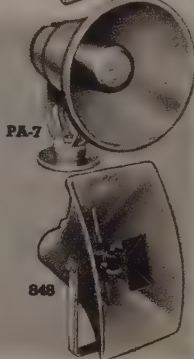


CIB-A8; CMIL-A8

IBR-A8



PA-15



PA-7

844

848

University Speakers and Drivers

WEATHERPROOF PAGING AND TALK-BACK SPEAKERS

Reflex-type air-column driver-trumpet units. Drivers hermetically sealed in dynamic types. LIL-8, decorator pager; IB-A8, general purpose; CIB-A8, wide angle; MIL-A8 and CMIL-A8 for low power systems. IBR-A8 for widest dispersion. With mtg. hardware. 8 ohms. *HWD. Av. shpg. wt., 5 lbs.

Stock No.	Mfr's Type	Frequency Response	Watts	Dispersion	Dia.	Length	EA
57 DX 818	LIL-8	300-10,000	15	110°	6 7/8"	15 3/4"	24.
57 DX 504	IB-A8	250-13,000	25	90°	10 1/4"	9"	20.
57 DX 515	CIB-A8	250-13,000	25	120x60°	.....	*7 3/4"x14x12	27.
57 D 569	MIL-A8	350-13,000	7 1/2	120°	6 3/8"	7"	16.
57 D 572	CMIL-A8	350-13,000	7 1/2	120x60°	.....	*6 7/8"x9 1/2"x8 3/8"	18.
57 DX 516	IBR-A8	300-10,000	25	360°	13"	10 1/4"	28.

HEAVY-DUTY ID-30 DRIVER FOR TRUMPETS

Hermetically sealed, PM, 85-7500 cps. 16 ohms. 30 watts. 3 3/4" lbs.

57 D 574.....18.

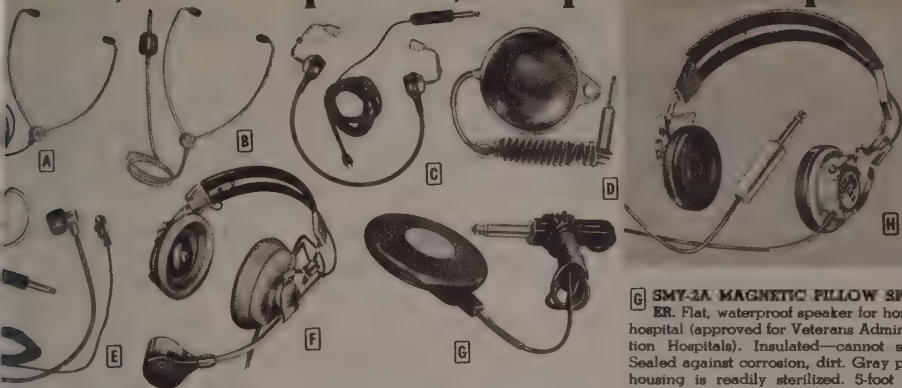
Electro-Voice Sound Projectors

WEATHERPROOF PAGING SPEAKERS AND PROJECTORS

Efficient re-entrant-type paging speakers and coaxial projectors. Speak feature die-cast horns, and are complete with drivers. Compound projectors have single driver—feature fiberglass construction, and offer wide horizontal coverage and smooth frequency response from two horns coupled to opposite sides of the driver's diaphragm. CDP with type number indicates compound projectors. All units listed below have 120° dispersion angle except Model 844 which has 90° dispersion angle.

Stock No.	Mfr's Type	Frequency Response	Watts	Dispersion	Ohms	Size	Lt. Wt.	EA
57 DX 819	PA-7	400-13,000	7 1/2	120°	16	6 3/4"x6"	3 1/4"	16.
57 D 676	PA-15	350-13,000	15	120°	8	8 3/4"x5 3/4"x3 3/4"	5 1/4"	19.
57 DU 540	848 CDP	150-10,000	30	120°	16	20 1/2"x10 1/2"x20"	15	48.
57 DX 542	847 CDP	250-10,000	25	120°	16	11 3/4"x7 3/4"x10 7/8"	10	29.
57 DX 544	844	250-13,000	30	90°	8	9 7/8"x8 3/8"	8 1/2"	22.

Headsets, Pillow Speakers, Telephone Pickups



EX EARPHONES, HEADSETS, PILLOW SPEAKERS

RETARY'S MONOSET. Sweetheart secretaries! Weighs only 1.2 oz. ic driver. 50-6500 cps. 1-mw input for listening; maximum, 25 mw. Metal; removable earplugs. 5-foot cord. Standard 1/4" phone plug. 8 oz. **7.75**

HMV-2. 125 ohms. **7.75**

HMV-2. 2000 ohms. **7.75**

ALL-PURPOSE DYNASET. For use in office. Weighs a comfortable. Adjustable tone arms. Magnetic 50-6500 cps. Impedance, 15 ohms. m input, 25 mw. Light gray finish. eable ear tips. 5-foot cord. 6 oz. **8.33**

APPROVED TWINSET. 1.6-oz. fae of pilots. Background sounds re-eligible for conversation. Magnetic rest at temples—adjustable arms sound to ears. 5-foot cord plugs into receiver; other end terminates in 3 1/4" phone plug. Gray, nickel-plated parts. 10 oz. **14.12**

HTX-2. 1000 ohms. **14.12**

HTW-2. 500 ohms. **14.12**

AMIC PILLOW SPEAKER. Hear enough your pillow! For "sleep learn-hospitals, etc. VA Hospital approved—d to eliminate shock hazard. Moving-magnet for wide response. For onal or private use. Stainless steel 6x3 3/4". 5' cord, 1/4" plug. 12 oz. **6.18**

SDN-2A. 3.2 ohms. **6.18**

SDM-2A. 10,000 ohms. **9.22**

SDM-7A. Same as SDM-2A, but me control on cord. **11.66**

1/2-OZ. DELAYED-SOUND TELE-FI. Tone arm delays sound to one ear by 1 millisecond—improves clarity! Ideal for secretaries. 60-6000 cps. Ear-loop included for one-ear listening. 5' cord, 1/4" plug. 6 oz. **6.35**

214. HFR-91. 15 ohms. **6.35**

257. HFV-91. 125 ohms. **6.35**

028. HFW-91. 500 ohms. **6.35**

258. HFX-91. 1000 ohms. **6.35**

217. HFT-91. 2000 ohms. **6.35**

MAGNA-TWIN MARK III HEADSET. Muff-style foam rubber cushions. For language labs, etc. Magnetic driver. 50-10,000 cps. Gray. 5-foot cord, std. 1/4" phone plug. Less boom mike. 1 1/2 lbs. **17.16**

029. MR-6. 500-600 ohms. **17.16**

032. MR-4. 10,000 ohms. **17.16**

HEADSETS WITH BOOM MIKE

034. MRB-45. 500-600 ohms. 50-ohm carbon mike (300-4000 cps). 2 lbs. **29.10**

061. MRB-60. 10,000 ohms. 20-ohm dynamic mike (100-9000 cps). 2 lbs. **27.20**

062. MRB-30. 10,000 ohms. High-Z ceramic mike (50-9000 cps). 2 lbs. **29.10**

SMY-2A MAGNETIC PILLOW SPEAK-

ER. Flat, waterproof speaker for home or hospital (approved for Veterans Administration Hospitals). Insulated—cannot shock. Sealed against corrosion, dirt. Gray plastic housing is readily sterilized. 5-foot cord, standard 1/4" phone plug. Impedance, 2000 ohms. 5 3/2 1/4". 6 oz. **5.46**

59 D 226. **5.46**

NEW HM-100 TELESET. Offers acoustic qualities similar to Magna-Twin at left, but does not include ear cushions. Has the same high-performance magnetic driver; provides response of 50-10,000 cps. Spring-type stainless steel headband, comfort-fitted with soft rubber. Sliders adjust to proper tension. Cups rotate 180°. For Hams, classrooms, aircraft, mobile units, etc. Weighs 8 oz. 6-foot cord. Impedance, 2000 ohms. Shpg. wt., 8 oz. **13.17**

59 D 083. **13.17**

CORDS, TIPS, ACCESSORIES

Stock No.	Fits C, G.	Type No. and Description	EACH
59 D 270	C, G	CMN-2. Gray 5' cord w/std 1/4" plug.	2.13
59 D 253	A, E	CMT-2. Gray 5' cord w/std 1/4" plug.	2.13
59 D 252	C, G	CMN-32. Gray 5' cord w/90° 3/4" min. plug.	1.65
59 D 037	A, E	CMT-32. Gray 5' cord w/90° 3/4" min. plug.	1.65
59 D 293	A, E	VVT-2. Cord w/125-ohm volume control.	5.40



LCP-90 TV LISTENER. For private listening or additional volume. Volume control and jacks for two earsets. Switch turns TV or radio speaker on or off (earset will work with TV speaker off). No soldering. With one earset and 15-foot cord. 1 lb. **9.37**

59 D 263. **9.37**

59 D 292. Extra Earset. For above. **2.87**

NEW TELEPHONE AMPLIFIER, MAGNETIC TELEPHONE PICKUPS

"PHONE TALK" PORTABLE TELEPHONE AMPLIFIER. Use phone from any part of your room! Any number of people can listen. Leaves your hands free. Fully transistorized; battery operated. Volume control, battery-saver switch. Black and white plastic case. With 9-v. battery. 4 1/4 x 4 1/8 x 2 3/4". From Japan. 2 lbs. **8.95**

KORD-O-KOIL PICKUP. For cradle phones only. 6-foot cable with standard phone plug. 5 3/8 x 1 1/2 x 9 1/4". 1 3/4 lbs. **5.88**



MAGNETIC RECORDING INDUSTRIES VM-938 PICKUP. For any telephone. Includes 5-foot cable; less plug. 3/4 x 1 3/4 x 4". 1/2 lb. **2.98**

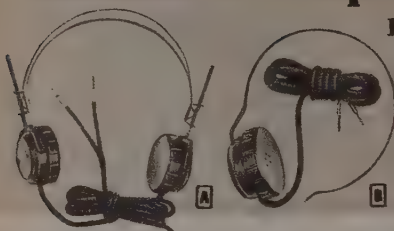
MAGNETIC PICKUP. Suction cup attaches to phone. With cable; less plug. 1/4 lb. **1.50**

59 R 297. **1.50**

LINCOLN

Headphones, Earpieces and Accessories

EXCELLENT LISTENING QUALITY AT LOW COST



A STANDARD DUAL HEADPHONES

Have double headband with firmly gripping, easily adjustable yokes. Powerful Alnico permanent magnets for efficiency over wide frequency range. $1\frac{1}{8}$ " diaphragm. $4\frac{1}{2}$ -ft. cords are cotton-covered tinsel. Inside terminals. Shpg. wt., $1\frac{1}{4}$ lbs.
 59 D 110. 2000 Ohms.....2.08
 59 D 111. 3000 Ohms.....2.16
 59 D 149. 4000 Ohms.....2.24
 59 D 141. 11 Ohms.....2.08

B SINGLE HEADPHONES

Dependable, economy-priced single phones. Suitable for hard-of-hearing installations, receivers, crystal sets, Geiger counters, etc. Diaphragm is $1\frac{1}{8}$ " in diameter. Has spring-metal headband which is permanently attached to back of case. With $4\frac{1}{2}$ -ft. cord. Shpg. wt., 8 oz.
 59 D 112. 1000 Ohms.....1.08
 59 D 113. 1500 Ohms.....1.15

INSTITUTIONAL DUAL PHONES

(Not illus.) For schools, hospitals, and other institutions where dependable, lightweight headphones are needed. Durable, easily cleaned bakelite cases, inside terminal connections for safety. Alnico magnets provide crisp, clear reproduction of voice and music. $4\frac{1}{2}$ ft. cord. Comfortable, easily adjustable, plastic headband. Shpg. wt., $1\frac{1}{4}$ lbs.
 59 D 100. 2000 Ohms.....2.20
 59 D 101. 3000 Ohms.....2.28

REPLACEMENT PARTS

Replacement parts for the Lincoln headphones listed on this page.

Stock No.	Description	Wt. Oz.	EACH
59 D 104	Diaphragm, Pkg. of 2	2	.13
59 D 106	Bakelite cap	2	.13
59 D 174	Headband with yokes	9	.58

- Adjustable Headbands
- Hyflux Alnico Magnets
- Internal Terminals
- $4\frac{1}{2}$ -Ft. Cords, Phone Tip Terminals

There are low-cost Lincoln headphones for every need. All have adjustable headbands; powerful Hyflux Alnico magnets; safe internal terminal connections; $4\frac{1}{2}$ -ft. cotton-covered tinsel cords; phone-tip terminals. Low-impedance models may be inserted directly at loudspeaker tap.

HEADPHONE CORDS



Copper conductor covered with woven cotton braid. Have 2 phone tips at one end; *refers to opposite end of cord. For use with headphones on this and following pages. Shpg. wt., 2 oz.

Stock No.	*Terms.	For Use With	EA.
59 D 220	Eyelets for inside terms.	59 D 100-101, -110, -111, -125, -126, -172, -135, -136, -137, -215.	.50
59 D 205	Eyelets	59 D 130	
59 D 206	Phone tips both ends	Govt. and military types	.50

5-FT. DOUBLE CORDS

Stock No.	*Terms.	For Use With	EA.
59 D 181	Eyelets	59 D 151-163	.54

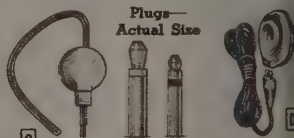
8-FT. DOUBLE CORDS

Stock No.	*Terms.	For Use With	EA.
59 D 218	Eyelets	59 D 130	
59 D 219	Phone tips both ends	Govt. and military types	.74

SINGLE CORD

Stock No.	*Terms.	For Use With	EA.
59 D 200	4-ft. cord with eyelets	59 D 112-113	.33

TRANSISTOR RADIO EARPIECES



C STANDARD EARPIECES

Replacement earpieces with 3-foot cord and plug. Match your present plug diameter with illustration to order correct Stock No. except *for GE and Westinghouse models before 1960. †From Denmark. ‡From Japan. Shpg. wt., 5 oz.

Stock No.	Type	Plug Size	EA.
59 D 018	JMB†	Small Dia. Barrel	
59 D 019	JMA†	Large Dia. Barrel	
59 D 022	WEM‡	"	
59 D 023	RYM-B†	Small Dia. Barrel	
59 D 024	RYM-A†	Large Dia. Barrel	
59 D 025	RY-WEM‡	"	

D SUPER POWER EARPHONE

Extremely sensitive dynamic earpiece. Ideal for low-output transistor circuits or 8-tube-type circuit where a high-impedance dynamic earpiece can be used. Powerful magnet produces up to three times the sound of other dynamic types. AC impedance, 7000 ohms. DC resistance, 10 ohms. With 3-ft. plug-in cord. From Denmark. Shpg. wt., 4 oz.
 59 D 026.....2.8

RUBBER EARPHONE CUSHION

Molded rubber ear cushions slip over earphone caps. Provide maximum wearing comfort, reduce outside noises. Shpg. wt., 6 oz.
 59 D 168. 1-9 Pairs.....PER PAIR 6
 10 or More Pairs.....PER PAIR

Selected Headphone Kits for Private Listening

E CANNON TV PHONE KIT

Aids hard-of-hearing. Allows private listening without disturbing others or simultaneous operation with speaker. Control box has volume control and speaker/phones switch. 15-ft. cord and two pairs of dual headphones. 3 lbs.
 59 D 175.....9.20
 59 D 176. As above, but with only one pair of phones. Wt., 2 lbs.....6.93
 59 D 177. Control Box Alone. 9 oz.....4.62
 59 D 173. Headset Alone. $1\frac{1}{4}$ lbs. EA. 2.42

G FEDTRO "PRIVATE-LEE" EARPHONE SET

Easily connected to any radio or TV set. Sensitive earpiece is comfortable and lightweight, adjusts to fit either ear. Ivory plastic control box has volume control, 17-ft. cable, and two jacks. One jack mutes speaker for

F CANNON-BALL HEARING AID

Popular, low-priced hearing aid for any radio or TV set. Specially-constructed low impedance headphone matches the output of radio or TV set. Built-in selector control switch permits listening with speaker or headphone only, or both speaker and headphone simultaneously. With control box, connecting cables for attachment to speaker and attachment of headphone to control box. Instructions and diagram. Wt., 1 lb.
 59 D 118.....3.3

listening with earpiece only. Other jack permits one person to listen from earpiece while others listen from speaker—ideal for the hard-of-hearing. Shpg. wt., 1 lb.
 59 D 255.....5.1



C. F. Cannon Headphones and Accessories



ORGNETTE. Hand-held magnetic earphone for churches, theatres. Earphone $3\frac{3}{4}$ " dia. Handle extends to 14". Imp., 10 ohms. 6-ft. cord. 10 oz. **4.50**

"CHIEF." Sensitive magnetic headset. Inside terminals; $2\frac{1}{16}$ " diaphragms; elite cases and caps. Vinyl headband. 1-ft. cord. 1 $\frac{1}{4}$ lbs. **2.42**
 D 172. CC-2. 2000 ohms. **2.98**
 D 069. CC-3. 3000 ohms. **2.99**
 D 071. CC-4. 4000 ohms. **2.99**
EXTRA CAPS AND DIAPHRAGMS. 2 oz. **EACH 21c**
 D 127. Caps. **EACH 21c**
 D 129. Diaphragm. Pkg. of 2. **13c**

C 59 D 073. Switchcraft Volume Control. Universal terminals, phone jack. $2\frac{3}{4} \times 2 \times 1\frac{3}{4}$ ". **2.69**
 3 $\frac{1}{4}$ oz.

D BRANDES BS-2 "SUPERIOR." Rugged 2000-ohm headset. Has outside terminals, durable metal cases, bakelite caps, $2\frac{1}{8}$ " diaphragm, and 2 coils in each case. Comfortable metal headband is easily adjusted to the desired size. $4\frac{1}{2}$ -ft. cotton-covered tinsel cord with tip terminals included. Shpg. wt., 1 $\frac{1}{2}$ lbs. **2.50**
 59 D 130. **2.50**

E BRANDES "ADMIRAL." Similar to "Superior" phones, above, but with inside terminal connections. 1 $\frac{1}{2}$ lbs. **2.50**
 59 D 135. BA-2. 2000 ohms. **2.50**
 59 D 136. BA-3. 3000 ohms. **2.66**
 59 D 137. BA-5. 5000 ohms. **3.08**

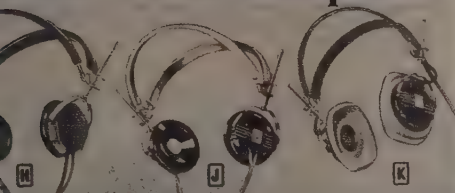
REPLACEMENT CAPS AND DIAPHRAGMS. For "Superior" and "Admiral" phones, above. Av. shpg. wt., 2 oz. **EACH 21c**
 59 D 138. Caps. **EACH 21c**
 59 D 140. Diaphragms. Pkg. of 2. **13c**

F "MASTER." High-quality headset for general-purpose applications. Metal cases have bakelite caps. Inside terminals for safety. Powerful chrome steel magnets. With cord. Shpg. wt., 1 $\frac{1}{4}$ lbs. **2.50**
 59 D 215. MC-2. 2000 ohms. **2.65**
 59 D 125. MC-3. 3000 ohms. **2.92**
 59 D 126. MC-5. 5000 ohms. **2.92**

EXTRA CAPS AND DIAPHRAGMS. 2 oz. **EACH 21c**
 59 D 127. Caps. **EACH 21c**
 59 D 129. Diaphragms. Pkg. of 2. **13c**

G NEW ALNICO V PHONES. Feature powerful Alnico permanent magnets for excellent sensitivity and response. Dual coils in each case. $1\frac{7}{8}$ " diameter diaphragms. Inside terminals for safety. Adjustable spring-steel headband. $4\frac{3}{4}$ -ft. cord has phone-tip terminals. 1 lb. **4.45**
 59 D 067. AM-25-2. 2000 ohms. **5.19**
 59 D 068. AM-25-4. 4000 ohms. **5.89**
 59 D 072. AM-25-24. 24,000 ohms. **5.89**

Clevite "Brush" Headphones



BA-200 HEADPHONES. Sensitive crystal headphones with high impedance (45,000 ohms at 1000 cps.) except *wired for stereo (2000 ohms). Response, 100 to 5000 cps. Require small DC block-capacitor for DC circuits. 5-ft. cord. 2 lbs.

Stock No.	Mfr's Type	Termination	EACH		
			1-9	10-24	25-Up
D 151	BA-200-1	Std. Phone Plug	16.90	16.45	15.50
D 260	BA-200B*	Eyelite Terminals	19.11	18.55	17.45

201 HEADPHONE. Similar to model BA-200 but, single headphone. 90,000 ohms. Phone tips, 1 lb. **EACH 14.65**
 D 156. 1-9. **EACH 14.20** 25-Up. **EACH 13.45**

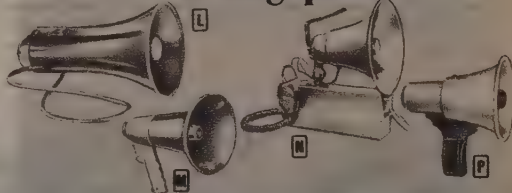
BA-206 HI-FI HEADSETS. Feature flat response from 50-10,000 cps with low distortion and excellent bass reproduction. *Wired stereo. Impedance at 1000 cps. 2 lbs.

Stock No.	Mfr's Type	Ohms†	Termination	EACH		
				1-9	10-24	25-Up
D 163	BA-206-1	50,000	Phone Plug	30.28	29.30	27.75
D 005	BA-206-2	50,000	Eyelite	30.28	29.30	27.75
D 154	BA-206B*	100,000	Eyelite	32.54	31.55	29.90

BA-220 HI-FI HEADSETS. Quality headphones with ear cushions. Wired for stereo or monophonic listening. 50-10,000 cps. 50,000 ohms. Eyelite terminals. Wt., 2 lbs. **EACH 33.81**
 D 052. 1-9. **EACH 31.00** 25-Up. **EACH 31.00**

215 EARCUSHIONS. Foam cushions same as illustrated in Fig. K. All Clevite "Brush" phones. listed. 5 oz. **PER PAIR 3.28**
 D 053.

Power Megaphones



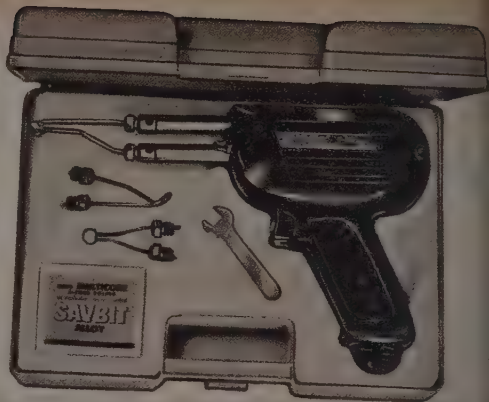
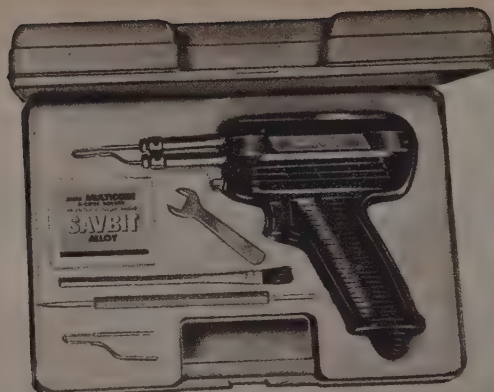
L FANON MV-1. Low-priced megaphone projects voice 300 yards.

Two switches instantly select high or low power for most efficient battery use. Aluminum with enamel finish, has carrying strap. Battery life, 10 hours (continuous). Less batteries, below. Horn dia., 6 $\frac{1}{2}$ ". Shpg. wt., 4 lbs. **26.41**
 57 SX 320. \$5 Monthly. **4 FOR 64c**
 55 I 868. Burgess 210 Battery. Uses 4. Wt., 5 oz. **2 FOR 64c**

M UNIVERSITY PP-2 "POWERPAGE." General-coverage unit with 440-yard range. Easy to handle—weighs only 3 $\frac{3}{4}$ lbs., including batteries. Convenient jack for use with external 6 or 12-volt DC source; press-to-talk switch. Horn diameter, 8". Less batteries, below. Shpg. wt., 6 lbs. **48.51**
 57 SX 323. \$5 Monthly. **2 FOR 20c**
 55 I 870. Battery. Uses 6. Wt., 2 oz.

N UNIVERSITY PP-1 "POWERPAGE." Powerful P.A. system delivers 25 watts for voice throw up to 1000 yards. Press-to-talk instantaneous operation; input jack for record player. "Talk/over" feature lets voice be heard over music. Talk/Listen switch for directional listening. CD approved. With strap. Less batteries, below. Speaker diameter, 9". 13 lbs. **61.45**
 57 SX 302. \$5 Monthly. **166.55**
 57 SX 301. PP-1T. Above, transistorized. 8 lbs. **EA. 79c**
 55 I 853. Battery. For above units. Use 4. Wt., 2 lbs.

P HOLMAN A-12 VOICE GUN. Hand-held 3-transistor unit punches voices out 500 yards or more. Withstands any weather. Offers press-to-talk, long battery life. Carrying strap. With 8 penlight cells. Horn dia., 7 $\frac{1}{4}$ ". Shpg. wt., 6 lbs. **89.96**
 57 SX 319. \$5 Monthly. **4 FOR 52c**
 55 I 867. Extra Batteries. Uses 8. Wt., 3 oz.



Weller General-Purpose and Industrial Soldering

8200PK "EXPERT" SOLDERING KIT

\$657

- Gun, Tips, Wrench, Brush, Solder-Aid and Solder
- Features the Weller "Expert" Dual-Heat Gun
- Ideal for Professional or Homecrafters Uses

Everything you need for fast professional or household soldering. Kit includes: Weller 8200, U.L. Listed, 100/140-watt, dual-heat soldering gun; break-proof plastic utility case; 3 tips for soldering, cutting and smoothing; tip-changing wrench; cleaning brush; solder-aid tool; and a coil of all-purpose solder. Dual-heat gun provides high and low temperatures for greater soldering convenience and longer tip life. Premium-plated copper tip assures superior heat transfer. Has prefocused spotlight to illuminate work area and eliminate shadows. Its compact design and perfect balance help to lighten your work. For 110-120 v., 60 cycle AC. Shpg. wt. 2½ lbs.

51 N 059.....6.57

D550PK HEAVY-DUTY SOLDERING KIT

\$955

- Gun, 3 Tips, Wrench, Solder and Instructions
- Features Weller Heavy-Duty, Dual-Heat Gun
- Accessories for Household Repairs and Hobby

Versatile, heavy-duty soldering kit for home or shop. Kit includes: Weller D550, U.L. Listed, heavy-duty, 240/325-watt soldering gun; unbreakable plastic utility case; 3 tips for soldering, cutting and smoothing; tip-changing wrench; 1 coil of all-purpose solder; and an instruction booklet. Two trigger positions on gun provide soldering temperatures for added convenience and increased life. Switch instantly to the heat suited for the job. Premium-plated copper tips for greater heat transfer. Built-in, prefocused spotlight illuminates work area, eliminates shadows. Compact and perfectly balanced for maximum comfort. For 110-120 v., 60 cycle AC. Wt. 7¼ lbs.

51 N 057.....9.57



\$456

Model 8200 Gun
100/140-Watt



\$730

Model D440 Gun
145/210-Watt



\$798

Model D550 Gun
240/325-Watt

Weller Light, Medium and Heavy-Duty Soldering Guns

MODEL 8200 DUAL-HEAT GUN

100/140-watt heat. High-efficiency copper tip; virtually instant heat. Prefocused spotlight. U.L. Listed. For 110-120 v., 60 cycle AC. 2½ lbs.

51 N 059.....4.56

CHISEL-POINT TIPS

2 per Pkg. Av. shpg. wt. per pkg., 3 oz.

Stock No.	Type	Use With Models	PKG.
46 N 574	7135	WS-100, WD-135, S-400, D-440, 8100	.25
46 N 573	7250	WS-200, WD-250, S-300, D-550, 8250A	.35
46 N 579	7300	S-107, D-207, Not interchangeable with above.	.25
50 N 209	8125	8100B, 8200	.35

MODEL D440 DUAL-HEAT GUN

Medium-duty gun for professional and homecraft uses. Trigger positions for 145 or 210-watt heat. Copper tip for superior heat transfer. Instant warmup. Spotlight illuminates work area. U.L. Listed. For 110-120 v., 60 cycle AC. 3 lbs.

46 N 644.....7.30

VERSATILE ACCESSORY TIPS

*Cutting; smoothing. Av. shpg. wt., 3 oz.

Stock No.	Type	For Models	EACH
46 N 681	6110*	WS-100, WD-135, S-400, D-440, 8100(B), 8200,	.35
46 N 682	6120†	8100(B), 8200,	
46 N 683	6130*	WS-200, S-500,	
46 N 684	6140†	D-550, 8250A	

MODEL D550 DUAL-HEAT GUN

Heavy-duty gun with long life tip. 240 or 325 watts provided by two trigger positions. High-efficiency copper tip. Prefocused spotlight. U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

46 N 641.....7.98

WELLER REPLACEMENT PARTS

*Tip nut; †switch. Av. shpg. wt., 3 oz.

Stock No.	Type	Use With Models	EACH
46 N 625	7325*	D-440, S-440, 8100, 8200, 8100B	.1
46 N 630	7417*	D-550, S-500, 8250A	
46 N 626	7323†	All Single-heat type	
46 N 627	7324†	All Dual-heat type	

100 Gun
Watts



Model 100K
Soldering Gun Kit
For Every Need

\$5.83

Model 199 Gun
130 Watts



With Case

\$7.33

Multi-purpose 199K
Soldering Gun Kit

Model 250 Gun
250 Watts



With Case

\$11.72

Heavy-Duty 250K
Soldering Gun Kit



Gun Kits, Guns and Accessories

100-WATT SOLDERING GUN KIT

100-Watt Gun, 2 Tips and Solder
Develops 100 Watts in 2½ Seconds
Sugged Gun Gives Years of Use

Complete home soldering kit in a unique
fold carton. Kit includes: Wen Model
Soldering gun with standard tip; plastic
cutting tip; and 5' of rosin core solder.
Former-type gun develops full 100
of power in 2½ seconds. Use it for
—compact and lightweight design
saves hand and arm fatigue. Has built-
in spotlight, angled to focus on work, and
switch. High luster ebony plastic
11/16" thin and 8" long with tip. U.L.
Listed. For 110-120 v., 60 cycle AC. Shpg.
wt., 4 lbs.

91.....5.83

199K SOLDERING GUN KIT

- 130-Watt Gun, 3 Tips and Solder
- Reaches Temperature in 2½ Seconds
- Tips Are Quickly Interchangeable

Multi-purpose solder gun kit. Includes Model
199—130-watt gun; three tips; 5-ft. roll of
rosin-core solder; plus metal storage box.
Gun reaches temperature in just 2½ sec-
onds! Compact and well-balanced, has pistol-
grip handle, prefocused spotlight, and shock-
proof case with trigger switch. Tips are
quickly interchangeable—include Model 19-
B-4 standard tip for household wiring; Model
19-F-33 woodworking tip; Model 19-C-1 tip
for cutting plastic, rubber or asphalt tile.
U.L. Listed. For 110-120 v., 60 cycle AC.
Shpg. wt., 4 lbs.

46 N 319.....7.33

250K SOLDERING GUN KIT

- 250-Watt Gun, 3 Tips, Wrench, Solder
- Heats to 250 Watts in 3 Seconds
- Comes in Sturdy Metal Carrying Case

Heavy-duty, 250-watt soldering gun in a
sturdy, attractive metal carrying case. Kit
includes: Wen Model 250 gun; soldering
tip; cutting tip for vinyl and plastic; flat tip
for smoothing dented wood; tip-changing
wrench; 5' of rosin core solder; and metal
carrying case. Model 250 gun reaches full
250-watt temperature in just 3 seconds. Ex-
cellent for speeding up radio-TV repair
work. Has ebony plastic case, with built-in
spotlight and trigger switch. Metal case,
8x9x3". U.L. Listed. For 110-120 v., 60 cycle
AC. Shpg. wt., 5 lbs.

50 N 250.....11.72

ECONOMICAL MODEL 250 100-WATT, HEAVY-DUTY GUN

Low-cost, heavy-duty gun that reaches
soldering temperature in 3 seconds. Excel-
lent for radio-TV repair work as well as
household and industrial applica-
tions. Built-in spotlight illuminates even the
out-of-reach places. Lustrous ebony,
shock-proof case—compact and lightweight
design—6½" long with tip. Trigger
switch. U.L. Listed. For 110-120 v., 60 cycle
AC. Shpg. wt., 4 lbs.

225.....9.52

REPLACEMENT TIPS. Wt., 2 oz.

Model	Mfr's Type	Description	E.A.
326	25-A-4	Standard Tip	.17
327	25-X-20	Feraloy Tip	.35
330	25-C-1	Cutting Tip	.35

MODEL 288—200-WATT GUN

Low-priced, heavy-duty soldering gun.
Lightweight and balanced for fatigue-free
use. Ideal for all types of heavy soldering
work. Tip is ideal for many delicate jobs—
into hard-to-reach places. Built-in pre-
focusing spotlight to eliminate shadows on
work area. Shatterproof case of high-impact,
black plastic. Length with tip, 9½".
U.L. Listed. For 110-120 v., 60 cycle AC.
Shpg. wt., 3½ lbs.

324.....7.33

A TIP. For above. Wt., 3 oz.

331.....EACH .42

MODEL 199—130-WATT GUN

Extremely popular, low-cost soldering gun.
Ideal for production line use. Develops full
130 watts of heat in just 2½ seconds. Effi-
ciency compares to guns of much higher
wattage ratings. Slimline design for getting
into hard-to-reach places. Long-life tip. Has
built-in spotlight to eliminate shadows on
work area. Lightweight, only 1½ lbs.—
minimizes arm and hand fatigue while you
work. Heat and shock-resistant red plastic
case, 5" long less tip. U.L. Listed. For 110-
120 v., 60 cycle AC. 2½ lbs.

46 N 358.....5.83

MODEL 100—100-WATT GUN

A highly efficient, transformer-type gun,
providing a full 100 watts of power. Heats
up quickly—takes just 2½ seconds. Perfect
for hobbyists—compact, lightweight design
assures maximum comfort to hand and arm
while you work. Built-in spotlight, pre-
focusing on work, lights up your work area
and eliminates shadows. Attractive high
luster, unbreakable ebony case, 11/16" thin
and 8" long with steel-nosed tip. Trigger
switch. U.L. Listed. For 110-120 v., 60 cycle
AC. Shpg. wt., 2 lbs.

50 N 025.....4.65

Buy Famous-Name Quality at Allied's Money-Saving Prices

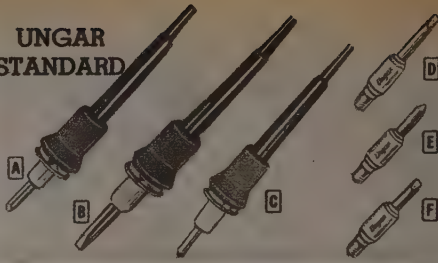
ALLIED 263

UNGAR IMPERIAL

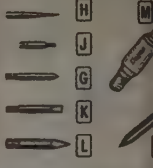


Complete
Soldering Kit
\$549

UNGAR STANDARD



ELEMENT, TIP and TIPLETS



Soldering Irons and Accessories by Ungar

IMPERIAL SOLDER KIT

Complete soldering kit, at a remarkably low price! Kit includes: 40-watt iron; 1 iron-clad gold-plated chisel tip; 1 copper long-taper chisel tip; and a 3-ounce can of heat seal. Feather-light iron is "just right" for precision soldering. Easily interchangeable tips make a variety of jobs possible. Heat seal gives maximum heat transfer, greatly reduces oxidation. U.L. Listed. For 110 volts, 60 cycle AC. Shpg. wt., 1 lb.

51 N 138.....**5.49**

50 N 632. Extra Iron-Clad Gold Plated Chisel Tip. For above. 2 oz.....**83¢**

STANDARD SOLDERING PENCILS

For subminiature work. Include 776 handle and AC cord, element, and tip. 23½-watt Type 536 heats its copper pyramid tip to 640°-700° F. Type 1236 is 37½-watts, heats its silver-plated iron, pyramid tip 750-800° F. 47½-watt Type 4033 delivers 850-1000° F. to a long chisel-tip of silver-plated, iron-clad copper. All are U.L. Listed. For 110-120 volts, AC or DC. Shpg. wt., 6 oz.

Stock No.	Fig.	Includes	EACH
50 N 302	A	536 Element-Tip	2.25
50 N 303	C	1236 Element-Tip	2.44
50 N 305	B	4033 Element-Tip	3.57

STANDARD ELEMENTS WITH TIPS. Thread into Ungar 776 handle, and 260 pistol. Types 553, 536, 539 and 1233 have copper tips. 1236 and 1239 have silver-plated iron tips. 4033, 4036 and 4039 are iron-clad, silver-plated copper. U.L. Listed. For 110-120 v., AC or DC. 2 oz.

Stock No.	Type	Fig.	Tip	E.A.
50 N 400	533	E	Chisel, 1½x¼"	1.05
46 N 582	536	D	Pyramid, 1½x¼"	1.05
46 N 585	539	F	Chisel, 1½x¼"	1.05

Stock No.	Type	Fig.	Tip	E.A.
50 N 401	1233	E	Chisel, 1½x¼"	1.22
46 N 592	1236	D	Pyramid, 1½x¼"	1.22
46 N 593	1239	F	Chisel, 1½x¼"	1.22

Stock No.	Type	Fig.	Tip	E.A.
46 N 647	4033	E	Chisel, 1½x¼"	2.35
46 N 648	4036	D	Pyramid, 1½x¼"	2.35
46 N 649	4039	F	Chisel, 1½x¼"	2.35

STANDARD ELEMENTS. Less tiplets. Thread into all Ungar handles and 260 pistol. Tiplets (sold at right) thread into elements. 1235, 4035, 4045—nickel-plated steel; 535—nickel-plated iron. 535, 1235, 4035 elements fit 300 and PL-300 Series tiplets. 4045 fits PL-800 Series tiplets. For 110-120 v., AC-DC. 2 oz.

Stock No.	Type	Tip Temp.	Watts	EACH
46 N 605	535	600-650°F	23½	1.05
46 N 609	1235	700-750°F	37½	1.22
46 N 622	4035	800-850°F	47½	2.35
50 N 105	4045	800-850°F	47½	2.35

STANDARD PLATED TIPPLETS. For subminiature work. Tiplets thread into 535, 1235, 4035 elements (left). Silver-plated iron-clad copper. All have ⅛" O.D. shanks. PL-331, PL-333 and PL-338 are 1" long; PL-332, 1¼"; PL-240, ¾"; Type PL-338 has ⅛" point; PL-340, ¾" point. 2 oz.

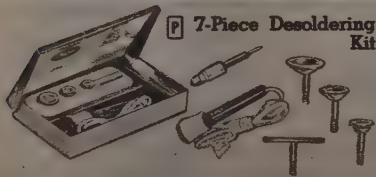
Stock No.	Type	Fig.	Description	E.A.
46 N 495	PL-331	G	Pencil	47
46 N 496	PL-332	N	Offset Pencil	
46 N 497	PL-333	K	Chisel	
50 N 101	PL-338	H	Tapered Needle	
50 N 409	PL-340	J	Micro-Needle	

STANDARD UNPLATED TIPPLETS. Same as PL-300 series above, but unplated copper. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	Description	E.A.
46 N 606	331	G	Pencil	176
46 N 607	332	N	Offset Pencil	
46 N 608	333	K	Chisel	

STANDARD PLATED TIPPLETS. For general purpose work. Use with 4045 element listed at left—thread into end. Silver-plated, iron-clad copper. All have ⅜" O.D. shanks for high heat-transfer. Types PL-823 and PL-824 have 1" unthreaded length; PL-833 and PL-834 have 1¾" unthreaded length. 2 oz.

Stock No.	Type	Fig.	Description	E.A.
50 N 410	PL-823	L	Pyramid	216
50 N 411	PL-824	K	Chisel	216
50 N 412	PL-833	K	Chisel	784
50 N 413	PL-834	N	Offset Chisel	784



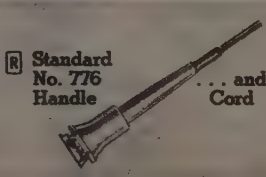
P 270 DE-SOLDERING KIT

\$571 • Complete 7-Piece Kit
• Makes Printed Circuit Repair-Work Easy

For fast, safe re-work on printed circuit boards. Kit consists of: 776 pencil handle with insulated cord; 4045 heating element; 3 de-soldering cups; 1 slotted tiplet; and 1 bar tip. Interchangeable tips deliver right amount of heat where needed. Cup-shaped tips remove solder from multi-lug components. Slotted tiplet removes solder and straightens bent tabs. Bar tip simultaneously melts solder on all multiple straight-line network components. In lifetime metal case, 1½x7¾x4¾". U.L. Listed. For 110-120 v., 60 cycle AC-DC. 1¼ lbs.

50 N 109.....**5.71**

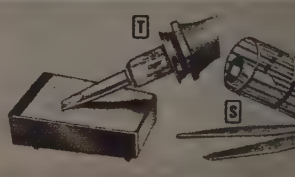
R Standard No. 776 Handle



R 776 HANDLE AND CORD

For exacting soldering requirements. Tested and quality-proven in millions of hours of production-line use. Takes wide selection of thread-in elements, tips and tiplets. Ideal for work on printed circuitry, miniature and sub-miniature systems. The 776 is durable, lightweight and extra-cool. Fatigue-free even after hours of work. Check these features: stainless-steel heat deflector keeps heat away from hand; "Soft-Touch" cork grip makes handle extra-cool to hold; thermo-stabilized phenolic housing is unaffected by the highest tip-temperatures; 6-ft. polyvinyl insulated cord is long-lasting, extremely flexible. Handle length, 5". Less tips and elements, listed above. U.L. Listed. Shpg. wt., 4 oz.

50 N 304.....**1.22**



S SOLDERING IRON HOLDER

TYPE 8000. Makes soldering jobs safer, more efficient. Offers double-safety—protects operator against accidental burns; protects iron against breakage. Holder cradles iron safely and securely. Quickly attaches to side, top or underside of bench. For Standard-Series only. Shpg. wt., 8 oz.

47 N 024.....**1.57**

T NO. 400 "KLEEN-TIP" KIT

Removes oxidation and excess solder from soldering tips—assures longer tip-life. Kit includes: specially processed sponge; phenolic tray and bracket for bench mounting. Shpg. wt., 2 oz.

50 N 421.....**98¢**

50 N 422. 455 Refill Sponge. 2 oz.....**39¢**

WALL

18HD
14T
5.87

D 186P
\$1.39

B 863
\$2.32

C 212LT
\$13.93

Weller
"MAGNASTAT"

E

F

Soldering Irons, Guns and Pencils for All Uses

WALL SOLDERING IRONS

For use on printed circuit work, many applications. Built to withstand hard use. Model 18HD (Fig. A) is non-thermostatic action—gives the right amount of heat for each job. Lengths: 18 HD, 7"; 14T, 5". U.L. Listed. For 110-120 v., AC or DC.

Stock No.	Type	Watts	Tip	Oz.	E.A.
394	18HD	25	1/4"	7	5.87
852	14T	40-125	1/4"	7	5.87

REPLACEMENT TIPS

See above. †Wall-Klad tips; *copper, used for production-line use.

Stock No.	Size	For	Oz.	EACH
171	1 1/4"	14T		2.29
170	1 1/4"	18HD	2	2.02
172	1 1/4"	14T		.26
173	1 1/4"	18HD		.18

863 "RADIOMAN" PENCIL

For 40-watt soldering pencil. Great for use on printed circuit, miniature and substitute work. Famous "Demon-Heat" element develops 800°F tip-temperature exceptionally fast. With 3/16" copper tip and U.L. Listed. For 110-120 v., AC or DC.

238	.....	2.32
596	Extra Element. 2 oz.	.69¢
597	Extra Tip. 2 oz.	.36¢

AMERICAN BEAUTY



AMERICAN BEAUTY IRONS—G-C, MILLER ACCESSORIES

For any soldering application. Special iron tip reduces pitting. Casing and body one-piece seamless steel. Lightweight, neoprene rubberoid-coated handles. 6-ft. U.L. Listed.

Model 3128—60 WATTS. For light work. 1/4" copper tip. With stand. Overall length, 12 1/4". For 110-120 v., AC or DC.

674		5.53
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REPLACEMENT TIPS, ELEMENT. For use. Type 9272 has mica insulation; with g. tube, terminal assembly.

Stock No.	Type	Description	Oz.	EACH
675	3728	Copper tip	3	.33
122	67D	Superior clad tip	3	1.05
670	9272	Element	6	2.80

"TRIG-R-HEAT" GUNS

Heavy duty. Feature thermostatic action, light-weight transformerless design. Squeeze the trigger—heat in seconds, provide correct wattage for the job. Balanced for fatigue-free operation. Narrow 6 1/2" barrels for close work. Have interchangeable tip elements. Black plastic housing. U.L. Listed. For 110-120 v., AC or DC.

MODEL 212LT. 300-500 watts. 1/2" steel-clad tip. 7-watt spotlight. 1 1/2 lbs.
46 N 848 13.93

MODEL 214LT. As above, but 150-400 watts; 1/4" tip. 1 1/4 lbs.
46 N 859 11.40

TIP-ELEMENT ASSEMBLIES

Fit 212LT or 214LT.

Stock No.	Watts	Tip	Wt.	EACH
46 N 870	150-400	1/4"	12 oz.	3.90
46 N 849	300-650	1/4"	1 lb.	6.17

D ECONOMY MODEL 186P. Medium-duty 75-watt iron. Removable 3/16" tip; temp. ranges to 860°F. "Demon Heat" element. 11 1/2" long. U.L. Listed. For 110-120 v., AC or DC. 3/4 lb.

50 N 226	.....	1.39
50 N 227	Extra Tip. 2 oz.	.45¢

MILLER



Heat-Sinks

G-C

LENK



LENK PENCIL-TYPE IRON

L MODEL 251 25-WATT IRON. Ideal iron for those small, precision soldering jobs—weighs only 2 oz. Still feels light after hours of work. Has 1/8" tip; plastic handle with cooling fins for cool, comfortable soldering. Stainless steel construction; 7 1/2". For 110-120 v., AC or DC. 1/2 lb.

46 N 940		4.47
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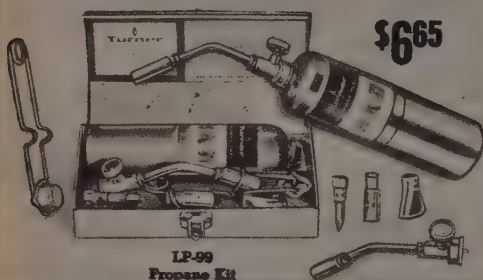
MODEL 256. Same iron as above, but rated at 40 watts.

46 N 941		4.47
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REPLACEMENT TIPS. Either tip below will fit either Lenk pencil-type iron, listed above. Shpg. wt. 3 oz.

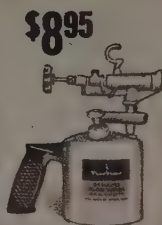
46 N 942	1/8" Tip	41¢
46 N 946	1/4" Tip	45¢

Turner Torches — Clean Flame in an Instant



LP-99
Propane Kit

\$665



T-15A
Gasoline Torch

\$895



LP-1955
Flexi-Hand
Torch

\$865



LP-555
Propane
Torch

\$465

POPULAR LP-99 PROPANE-GAS TORCH KIT

Multi-purpose torch kit in an attractive case. Includes everything you need to sweat fittings, solder, bend metal, etc. Attachments for both light- and heavy-duty work. All brass torch has heavy-duty valve with drag spring on knob. Kit consists of: pencil-point burner; heavy-duty burner tip that provides a larger flame and greater volume of heat for work requiring extra-duty performance; brass flame-spreader; copper, chisel-point solder tip; tank of fuel; spark lighter; and rugged steel case—size, 3x10 $\frac{1}{4}$ x6". U.L. Listed. Shpg. wt., 6 $\frac{1}{2}$ lbs.

50 N 081 6.65

NEW LOW-PRICED T-15A GASOLINE TORCH

Quart-size torch at an economy price. Furnace brazed and bronze sprayed. Cast bronze burner. Over-sized drip cup for quick generation. Detachable "backstop" cleaning needle for safety. Automatic adjustment and orifice cleaning. Shpg. wt., 4 lbs.

51 NX 134 8.95

NEW CLIP-ON LP-1955 FLEXI-HAND HOSE TORCH

Simply clip the propane tank onto your belt—it's completely out of your way—you work freely in tight spots! Flexible hose lets you work in tight areas without any trouble. Includes: fuel tank, clip assembly, 4-ft. hose, pistol-grip handle, and pencil-point burner assembly. Quart size. Shpg. wt., 4 $\frac{1}{4}$ lbs.

51 NX 135 8.65

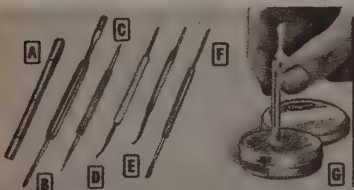
RELIABLE LP-555 PROPANE-GAS TORCH

Considered the standard propane torch of the industry. Consists of tank of propane fuel and forged brass valve assembly with pencil-point burner. U.L. Listed. Shpg. wt., 3 $\frac{1}{2}$ lbs.

50 N 716 4.65

REPLACEMENT FUEL TANKS

Last 15 hours each. Meet I.C.C. specs. 2 per pkg. 5 lbs. 50 N 082 PER PACKAGE OF TWO 2.85



SOLDERING AIDS AND TOOLS

A CHEMALLOY ALUMINUM SOLDER. Joins surfaces without cleaning. 500° solder for thin metal; 800° for heavy work.

Stock No.	Unit	Temp.	Wt.	E.A.
50 N 083	2—2-oz. bars	500°	6 oz.	.59
50 N 085	2—2-oz. bars	800°	6 oz.	.59
50 N 086	1-lb. bulk	500°	1 $\frac{1}{4}$ lbs.	1.39

B G-C MODEL 9088. Wire brush and chrome-tipped holding end. 4 oz.

42 N 001 98¢

C G-C MODELS 9075 and 9076. Chrome-plated ends ream, hold or pry. Heat-treated tool steel. Wt., 4 oz.

49 N 358, Straight End. (Fig. C) 68¢

49 N 359, Angled End. (Fig. D) 68¢

E G-C MODEL 9093. For printed circuits. Stainless steel hardened—solder will not stick to tool. Wt., 4 oz.

50 N 586 98¢

F G-C 9094 PRINTED CIRCUIT BOARD BRUSH/SCRAPER. Stainless steel brush, hardened steel scraper. 8" long. 3 oz.

50 N 587 96¢

G UNGAR TYPE 8001 ANTI-SEIZE COMPOUND. Lubricates solder-tip threads.

2-oz. can. Shpg. wt., 3 oz.

47 N 025 54¢



KESTER

For the Radio and TV Serviceman
On the Production Lines of Industry
Indispensable in "Do-It-Yourself" Workshops

KESTER SOLDERS

"RESIN FIVE" CORE SOLDER. Has active "Resin" flux for difficult jobs. Non-corrosive, non-conductive solder for printed circuits. Coil $\frac{1}{16}$ " dia.; spool $\frac{1}{2}$ " dia. 40% tin, 60% lead. *60% tin, 40% lead.

Stock No.	Size	Net Wt.	Shpg. Wt.	EACH
50 N 310	$\frac{3}{32}$ "	5 lbs.	5 $\frac{1}{4}$ lbs.	7.47
46 N 916	$\frac{1}{16}$ "	1 lb.	1 $\frac{1}{4}$ lbs.	1.19
46 N 900	$\frac{1}{16}$ "	1 oz.	3 oz.	.21

PRINTED CIRCUIT SOLDER. 60% tin, 40% lead. $\frac{1}{16}$ " dia. Wt., 1 $\frac{3}{4}$ lbs.

46 N 926. 1-lb. Spool. 1.63

ROSIN-CORE SOLDER. Plastic rosin-fill $\frac{3}{32}$ " for general work; $\frac{1}{16}$ " for delicate work. 40% tin, 60% lead, except *50-50.

Stock No.	Size	Net Wt.	Shpg. Wt.	EACH
46 N 901	$\frac{3}{32}$ "	1 lb.	1 $\frac{1}{4}$ lbs.	1.19
46 N 902	$\frac{1}{16}$ "	5 lbs.	5 $\frac{1}{4}$ lbs.	5.73
46 N 930	$\frac{1}{16}$ "	1 lb.	1 $\frac{1}{4}$ lbs.	1.21
46 N 931	$\frac{1}{16}$ "	5 lbs.	5 $\frac{1}{4}$ lbs.	5.88
46 N 919	$\frac{1}{16}$ "	1 lb.	1 $\frac{1}{4}$ lbs.	1.41

SOLDER PASTE. Even distribution of active ingredients. 2 oz. cans. Wt., 5 oz.

46 N 915 15¢

TINNING BLOCK. Wt., 1 $\frac{1}{4}$ lbs.

46 N 922 65¢



ERSIN MULTICORE

Multicore Solders Feature Separate Cores of Flux ...
Poor Connections Due to Unstable "Dry Joints" Are Totally Eliminated

ERSIN MULTICORE SOLDERS

ERSIN MULTICORE SOLDER. 5 cores of non-corrosive flux. 40% tin, 60% lead. 1-lb. spools. Wt. per spool, 1 $\frac{1}{2}$ lbs.

Stock No.	Gauge	EACH
46 N 995	14 (.080")	1.42
46 N 991	16 (.064")	1.45
50 N 313	18 (.048")	1.48

SERVICE PAK. 18-gauge 5-core solder. 60% tin, 40% lead. Shpg. wt., 12 oz.

46 N 997 48

PURE TIN/LEAD SOLDER. Non-corrosive. Ersin flux is 60% tin and 40% lead.

Stock No.	Gauge	Spool Wt.	Shpg. Wt.	EACH
49 N 368	16 (.064")	1 lb.	1 $\frac{1}{4}$ lbs.	2.0
49 N 370	18 (.048")	1 lb.	1 $\frac{1}{4}$ lbs.	2.1
49 N 372	20 (.036")	1 lb.	1 $\frac{1}{4}$ lbs.	2.2

"SAVBIT" SOLDER. Cooper-tin-lead alloy. Reduces copper tip wear by 90%. Has greater strength than tin-lead alloys.

Stock No.	Gauge	Spool Wt.	Shpg. Wt.	EACH
50 N 121	14 (.080")	1 lb.	1 $\frac{1}{4}$ lbs.	1.7
50 N 123	16 (.064")	1 lb.	1 $\frac{1}{4}$ lbs.	1.7
47 N 056	18 (.048")	1 lb.	1 $\frac{1}{4}$ lbs.	1.8
47 N 057	20 (.036")	1 lb.	1 $\frac{1}{4}$ lbs.	2.0

144-Pc. Power Kit by **THOR** SpeedWay



Complete
144-Piece
Workshop

\$79⁹⁵
\$5 monthly

—AN ACCESSORY FOR EVERY JOB—

6 jig saw blades: 4 wood-cutting, 2 metal-cutting • Guiding knob, and wrench for jig saw • Rip fence and circle cutter for jig saw • Heavy-duty drill press • Forty, 5" round sanding discs • 7 drill bits: 1/8" to 3/8"

3 masonry bits: 3/8", 1/2", 5/8", plus pouch • 6 wood auger bits: 3/8", 1/2", 5/8", 3/4", 1", plus pouch • Key for geared chuck • 5" polishing bonnet • 5" rubber backing pad • 3" grinding wheel • Paint mixer • 3" cloth buff • 3" wire wheel • 36 sandpaper sheets (4 1/2 x 6 1/2") for sander

carbidegrit sheets—fine, medium, and coarse • 7-pc. arbor set • 3-pc. saw table with rip fence and protractor • 8-pc. hole-saw attachment—cuts 1" to 2 1/2" holes • Horizontal speed stand • 5-pc. circular saw attachment with blade • Wood plane attachment and blade • 2-prong AC adapter

- Our Largest and Most Versatile Workshop—YOUR Best Buy!
- Featuring 3 Industrial-Rated BURN-OUT PROOF Power Tools

3/4" DRILL. 3-amp motor; 11-bar commutator. Ball-thrust and self-oiling bronze bearings. Drills 1" dia. in wood, 3/8" in steel. "Speed Sight" for accurate all-angle drilling. No-load, 1750 rpm; full-load, 1150 rpm. Polished aluminum housing. 8 1/4" long. 6' 3-wire cord. U.L. Listed. For 110-120 v. 60 cycle AC.

JIG SAW. 3-amp motor. No-load, 3000—5/8" strokes/minute. Curves, scrolls, circles, straight cuts and rips 2" wood, 1/8" steel. Helical-cut, steel gears. Adjusts for 45° cutting. Self-oiling, bronze alloy bearings. U.L. Listed. For 110-120 v., AC-DC.

ORBITAL SANDER. Improved version of Model 1. Covers 4 1/2 x 5 1/8" sanding area—gets in corners with ease. Mirror-finish, black top. 3-wire cord. U.L. Listed. For 110-120 v., 50-60 cycle AC.

51 NZ 151D. \$5 Monthly. Wt., 41 lbs..144-PC. WORKSHOP 79.95

THOR-SPEEDWAY 65-PIECE POWER TOOL KIT

Practically a Complete Home Workshop!

3/4" Drill, Jig Saw and Orbital Sander Have
Husky Burn-Out Proof Motors

Includes Accessories in Greatest Demand

\$49⁹⁵

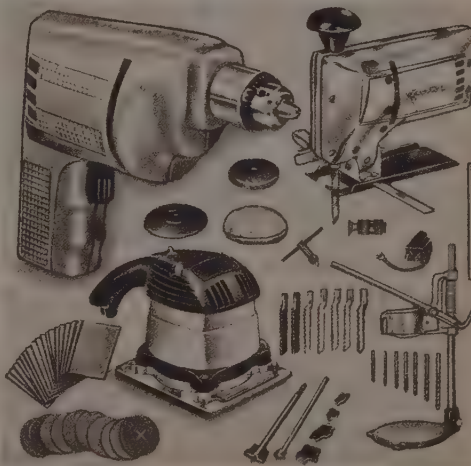
\$5 monthly

away the elbow grease! Do it the easy way—with power. Get air and workshop jobs done quicker and better. You can drill, cut, saw, sand, polish, and buff—this kit is versatile! It's your opportunity to own quality tools at a surprisingly low price. And, power tools feature burn-out proof motors—you can depend on them not to burnout, even after prolonged use.

3/4" drill has 2 1/2-amp motor, 2400-rpm no-load speed, 1500-full-load speed, and ball-thrust bearing. Includes chuck key. Metal sander is lightweight, easy to handle; has self-oiling bearings—covers 4 1/2 x 5 1/8" sanding area. Jig saw includes rip fence, and wrench. Cuts curves, scrolls, straight and rip cuts in 2" 1/4, 1/8" steel. Adjustable plate permits accurate angle cuts up to No-load speed, 3000 strokes per minute.

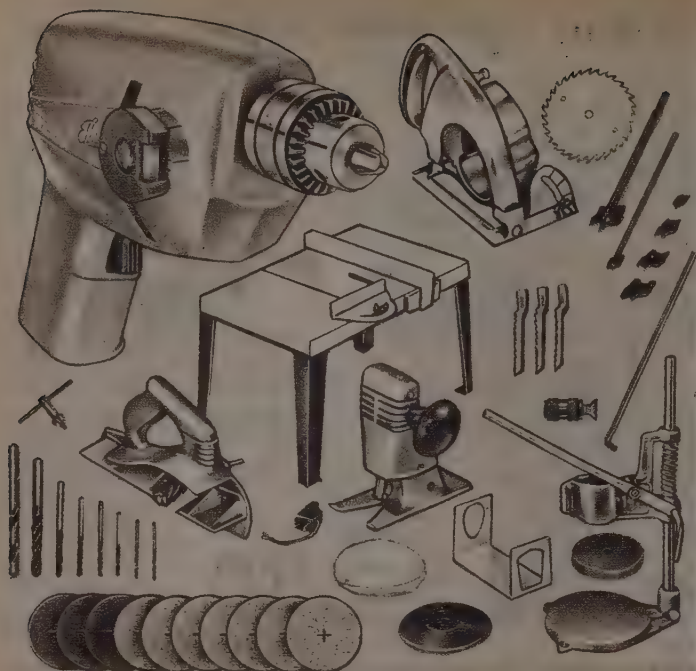
Included: 7 chrome-steel drill bits, 1/16" to 3/8"; 6 wood bits, 3/8" plus pouch; 3-pc. arbor set; drill press; 7 jig saw blades—5 1/4-cutting, 2 metal-cutting; 18 sandpaper sheets for sander; 5" sanding discs for drill; 5" lamb-wool bonnet; 5" rubber eraser; paint mixer; 3" grinding wheel; 2-wire adapter. U.L. Listed. 110-120 v. AC. 32 lbs.

U 150D. \$5 Monthly.....49.95



At Allied's Credit Fund and Enjoy Your Workshop Now

ALLIED 267



NEW! 48-Piece Home Hobbyist's Delight

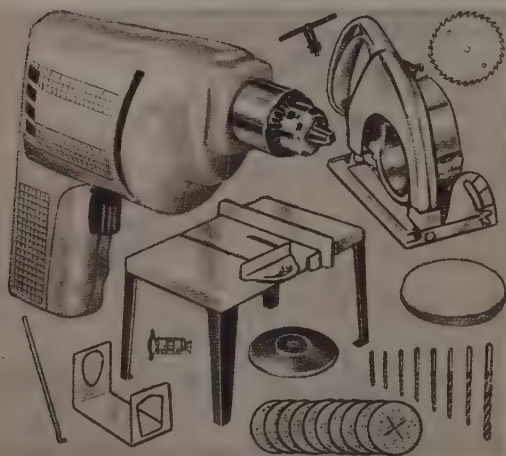
\$39.95 Complete Workshop
High-Power $\frac{3}{8}$ " I
\$5 Monthly Motor Won't Burn

THOR-SPEEDWAY 48-PC $\frac{3}{8}$ " DRILL KIT

Terrific value—complete home workshop featuring the Model 813SS-BT $\frac{3}{8}$ " drill also includes: press; 8 drill bits; $\frac{1}{16}$ " circular saw attachment, blade; 3-pc. table jig saw attachment, 3 blades; planer blade; rubber backer; grinding wheel; sanding discs; 3-pc. arbor set; chuck key; wood boring bits, $\frac{3}{8}$ "-1" plus pouch; bonnet; horizontal stand; paint stirrer; 2-prong adapter.

The 813SS-BT drill features burnout-p armature and speedsight adjustment to you drill all angles accurately. Its 3-motor with self-oiling bearings has a load speed of 1150 rpm, no load speed 1750 rpm. Drill has geared chuck and Drill has sturdy, die-cast, polished aluminum case. AC momentary contact switch with locking pin. With 6-ft., 3-wire cord. Listed. For operation from 110-120 v., cycle AC. Shpg. wt., 21 lbs.
51 NU 152-D. \$5 Monthly.....39.

Your Best Buy $\frac{1}{4}$ " and $\frac{3}{8}$ " Power Drill Kits, Polished



NEW THOR-SPEEDWAY 31-PIECE $\frac{3}{8}$ " DRILL KIT

\$24.95

- For Drilling, Sanding, Sawing and Polishing
- Features Powerful, High Speed $\frac{3}{8}$ " Drill

Versatile, 31-piece kit for drilling, sanding, sawing and polishing. Kit includes: powerful $\frac{3}{8}$ " drill with chuck key; 10-8" sanding discs; rubber backer; 5" lamb's wool bonnet; 8-pc. drill bit set, $\frac{1}{16}$ "- $\frac{3}{8}$ "; paint stirrer; 3-pc. arbor set; circular saw attachment with blade; 3 pc. circular saw table with protractor and bar. Self-oiling bearings. U.L. Listed. For 110-120 v., 60 cycle AC. 9 lbs.
51 NX 153-D. \$5 Monthly.....24.95



A HANDY AND VERSATILE TOOL

13- Piece Set

NEW THOR 13-PC. POLISHER-SANDER KIT

\$24.95

- Everything You Need For Polishing-Sanding
- 115 v., 3 Amp AC-DC Motor Won't Burn C

13-piece kit featuring Thor's motor that won't burn out. Includes Thor No. 37 Speed Polisher-Speed Sander; 6-6" sanding disc (2 each fine, medium and coarse grit); 6" backing pad; 2-6" lamb's wool bonnets; 1-2-prong adapter; polishing rouge and a 110-3-amp motor has full load speed of 900 rpm. U.L. Listed. For 110 v., AC or DC. 5 lbs.
51 NX 154. \$5 Monthly.....24.

6-Piece Drill Kit for Home and Shop

Thor No. 20 Drill
Saw Attachments
Burnout-Proof Motor

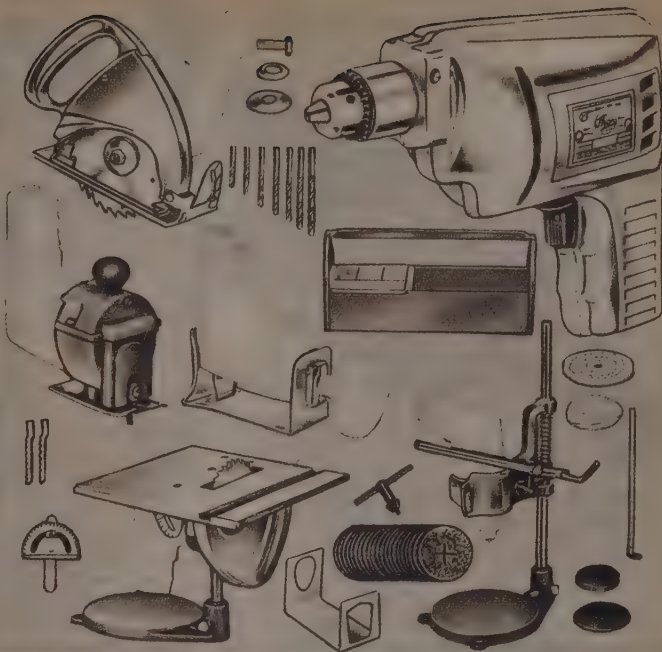
\$29⁹⁵

NEW THOR "SUPER" 46-PC. 1/4" DRILL KIT

for home, shop, garage or farm.
Powerful 2 1/2-amp, 1/4" power drill and
attachments handle hundreds of do-it-your-
projects. Drills, grinds, sands,
etc.

Includes: Thor No. 20 drill; chuck key; 7
bits (1/16"-1/4"); drill-press stand; circular
saw with blade and jig-saw attachment, 2
saws; steel saw table; 20 sanding discs;
grinding wheel; wool polishing bonnet; cloth
rubber backing pad; 3-piece arbor set;
stirring tool; horizontal speed stand;
etc.

Thor No. 20 drill with self-aligning oilite
bearings will not burn out. Steel gear-type
chuck takes 1/4" shanks. No-load speed,
1500 rpm; full-load, 1500 rpm. Trigger
switch has locking pin. Drill is 7" long.
3-wire cord and 2-prong plug adapter.
Listed. For 110-120 v., 60 cycle AC.
J 153-D. \$5 Monthly.....**29.95**



Drill and Wrench Kits—Do Big Jobs and Cost So Little

9-Piece Set



THOR NO. 56AKC IMPACT WRENCH/DRILL KIT

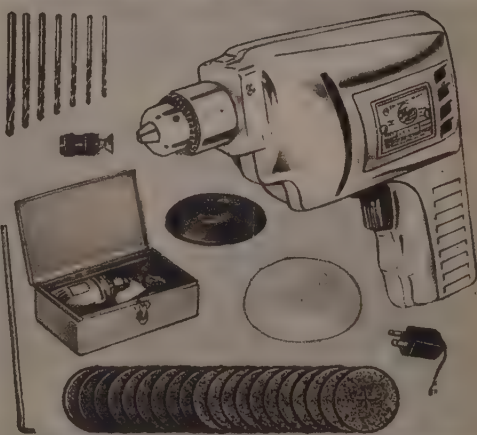
Extremely Versatile—Can Be Used as Sander,
Screwdriver or Powerful 1/2" Drill

\$76⁹⁵

Powerful 4-amp reversible wrench drives nut-driver sockets. Easily
converts to 1/2" drill. Includes 6 hexagon sockets (1/2", 9/16", 5/8",
3/4", 13/16"); geared 1/2" chuck; and steel case. With 3-wire
cord and 2-prong adapter. Case 10 1/2 x 11 3/4 x 16 1/4". U.L. Listed.
10-120 v., AC or DC. 21 lbs.

J 878. \$5 Monthly.....**76.95**

J 879. Impact Wrench Only. 9 lbs.....**64.95**



NEW! THOR 1/4" 35-PIECE HOME DRILL KIT

• 2 1/2 Amp Burnout-Proof Motor Produces 1500 rpm
• Includes Extra-Sturdy Steel Case

\$14⁵⁰

Economy 35-piece drill kit suited to the requirements of the home
handyman and hobbyist—not only drills; but buffs, sands and stirs
as well. Drill has 2 1/2-amp burnout-proof motor with self-aligning
oilite bearings. Offers 1500-rpm speed under load. Kit includes:
drill, assortment of 7 drill bits; 5" wool polishing bonnet; 5" rubber
backer; 20 sanding discs; 3-pc. arbor set; paint stirrer; case. 10 1/2 x
6 3/4 x 3 3/8". U.L. Listed. For 110-120 v., 60 cycle AC. 9 lbs.
51 NX 156.....**14.50**

1" and 1/2" Power Drills Built to Last



THOR "HANDY" MIDGET 1/4" DRILL
Lightweight But Loaded With Power

- Fits in Your Palm
- Only 27 Oz., Less Cord
- Special Diode Circuit

\$3250

The new Model E-100—a midget-size drill that furnishes the power and features needed for most jobs. It's just half the size of a conventional power drill! Capacity: 1/4" diameter in steel; 1/2" diameter in hard wood. Has dependable burnout-proof motor; double reduction gears; ball thrust bearing for extremely smooth operation; 3-jaw gear chuck and key; adjustable trigger switch; comfortable pistol grip. No-load speed, 1250 rpm; full-load speed, 900 rpm. Supplied complete with 6-ft. 3-wire cord; 3-prong plug. Over-all length, 6 7/16". For 110-120 volts, 25-60 cycle AC. Less drill bit. 3 lbs.

50 N 978D. \$5 Monthly. **32.50**

THOR MODEL 20 LOW-COST 1/4" DRILL

HAS PLENTY OF POWER



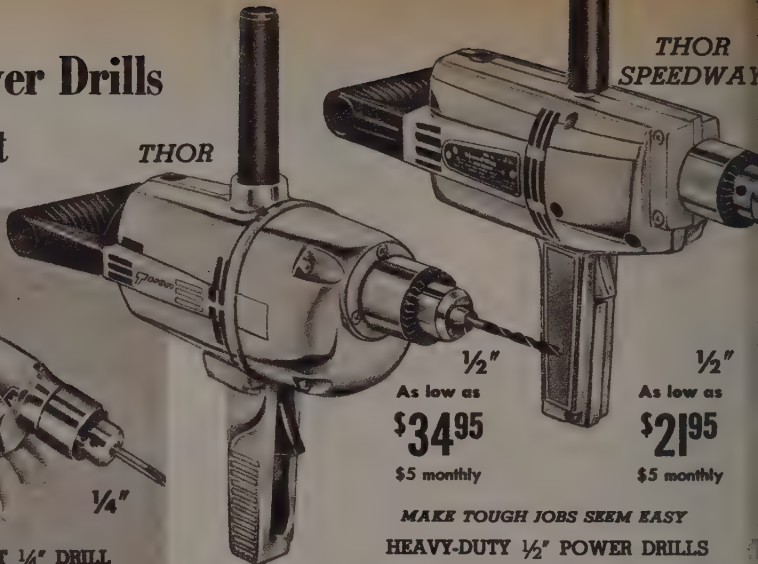
High Quality at
Lowest Price

\$1095

- Burnout-Proof Motor • Welded 11-Bar Commutator
- All Steel Hobbed Gears • Ball Thrust Bearing

Value-packed power drill with a husky 2 1/2-amp motor that delivers plenty of power to drive attachments. Capacity: 1/4" dia. in steel; 1/2" in hard wood. Self-aligning ball-thrust bearing. Momentary-contact switch has locking pin. No-load speed, 2400 rpm; full load, 1500 rpm. Die-cast aluminum housing. Overall length, 9". U.L. Listed, industrially rated. With 6 ft. 3-wire cord and 3-prong plug; geared chuck and key. For 110-120 v., 60 cycle AC. Less drill bit. Wt. 3 1/2 lbs.

50 N 538. **10.95**



**THOR
SPEEDWAY**

1/2"
As low as
\$3495
\$5 monthly

1/2"
As low as
\$2195
\$5 monthly

MAKE TOUGH JOBS SEEM EASY HEAVY-DUTY 1/2" POWER DRILLS

- Burnout-Proof 6 1/2-Amp Motor
- Welded 28-Bar Commutator

- Burnout-Proof 4-Amp Motor
- Welded 14-Bar Commutator

MODEL 1419R. Reversible. Handles all kinds of jobs. Capacity: 1/2" dia. in steel; 1 1/4" in hard wood. Has ball bearing on spindle. All-steel hobbed gears; removable handles; safety lock; quick-release. No-load speed, 550 rpm; full-load, 400 rpm. Length with end-handle, 14 3/4". End-grip rotates. Balanced, die-cast aluminum housing. 6-ft. 3-wire cord; geared chuck and key. Industrially rated U.L. Listed. For operation from 110-120 volts, AC-DC. Less drill bit. Shpg. wt. 12 lbs.

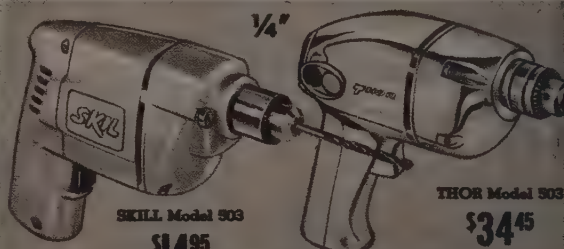
50 NX 869. **38.95**

51 NX 158. Model 1419. As above, but not reversible. **34.95**

MODEL 815R. Reversible drill offering plenty of power. Capacity: 1/2" dia. in steel; 2" in hard wood. Has a spindle ball bearing and special self-oiling bronze alloy bearings throughout. 2 position rear handle—both handles removable. Trigger lock. Has 600-rpm no-load speed; 400 rpm under load. Polished aluminum and black crackle housing. Overall length, 14 1/2". With 6-ft. 3-wire cord; geared chuck and key. Industrially rated U.L. Listed. For 110-120 v., 60 cycle AC-DC. Less drill bit. Wt. 11 lbs.

51 NX 165. **24.95**

51 NX 164. Model 815. As above, but not reversible. **21.95**



SKILL Model 503
\$1495

THOR Model 503
\$3445

ECONOMY AND HEAVY-DUTY 1/4" POWER DRILLS

- 2 1/2-Amp Motor • Helical Gears • U. L. Listed

- Burnout-Proof 3.1-Amp Motor • Double-Reduction Steel Gears

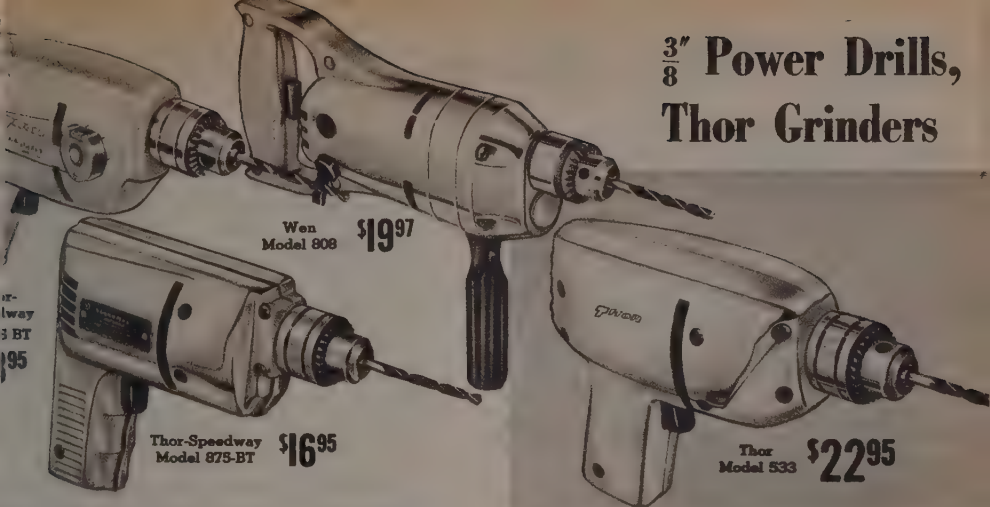
SKILL ECONOMY MODEL 503. Self-adjusting brushes for top efficiency. Capacity: 1/4" dia. in steel. Automatic locking switch for sustained operation. No-load speed, 2500 rpm. Oversized fan to cool motor. 9" long. 6-ft. 3-wire cord and plug; 2-prong adapter; geared chuck and key. U.L. Listed. For 110-120 v., 50-60 cycle AC. Less drill bit. Wt. 4 1/2 lbs.

50 N 522. **14.95**

THOR HEAVY-DUTY #503. For almost any job. 3.1-amp motor with welded 22-bar commutator. Rugged ball and needle bearings. No-load speed, 2200 rpm; full-load, 1400 rpm. 8 3/4" long. With 6-ft., 3-wire cord and 2-prong adapter; geared chuck and key. Industrially rated U.L. Listed. For 110-120 v., AC or DC. Less drill bit. Shpg. wt., 5 lbs.

50 N 845. \$5 Monthly. **34.45**

3/8" Power Drills, Thor Grinders



VERSATILE 3/8" POWER DRILLS—BUDGET-PRICED

WEN 2-SPEED 808 WITH WELDED 11-BAR COMMUTATOR. Most, industrially-rated 3/8" drill for all-around use. Capacity: 1/2" dia. in steel; 1" in hard wood. Has 3-amp burnout proof motor, thrust bearing, self-oiling bronze alloy bearings, and gear-type chuck. No-load speed, 1750 rpm; full-load speed, 1150 rpm. Unique "Double Sight" allows accurate all-angle drilling. Trigger switch has 3-position. Rugged die-cast aluminum housing. Length, 8 1/4". 6-ft. 3-wire cord. U.L. Listed. For operation from 110-120 v., 60 cycle A.C. drill bit. Shpg. wt., 5 lbs.

163.....13.95

THOR-SPEEDWAY 875-BT WITH WELDED 11-BAR COMMUTATOR. Economy power drill with extra-power 3-amp burnout-proof motor for tough jobs. No-load speed, 925 rpm; full-load speed, 610 rpm. Capacity: 3/8" dia. in steel; 3/4" in hard wood. Special oilite gears; double-reduction all-steel gears; geared chuck and key; rugged, polished die-cast aluminum housing. Overall length, 8 1/2". With 6-ft. 3-wire cord and plug, U.L. Listed. For 110-120 v., 60 cycle A.C. Less drill bit. Shpg. wt., 5 lbs.

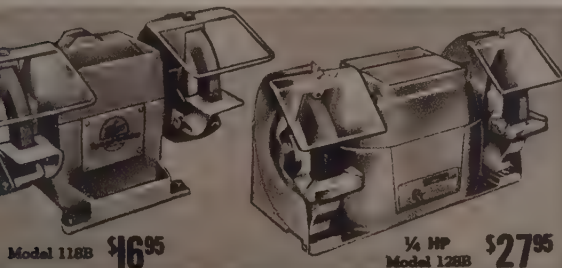
166.....16.95

WEN 2-SPEED 808. This highly versatile 3/8" drill offers the advantages of dual speed: 3000-rpm speed for wood and lighter metals; 1000-rpm speed to handle heavy metals, concrete, etc. Powerful 2-amp motor. Geared chuck has ball thrust bearing for smooth operation. Also: trigger switch; lock button; removable handle. Length, 12 1/2". With 6 ft. 3-wire cord and plug; 2-prong adapter; chuck key. Polished, rugged housing. U.L. Listed. For 110-120 v., AC-DC. Less drill bit. Shpg. wt., 5 lbs.

46 N 947. \$5 Monthly.....19.97

THOR 533 WITH 22-BAR COMMUTATOR. A tough drill boasting a husky 3.1-amp motor—handles all kinds of jobs around the shop, farm and home. Dynamically balanced burnout-proof motor is free of vibration. Capacity: 3/8" dia. in steel; 3/4" in hard wood. Has heavy-duty thrust and spindle ball bearings; precision all-steel hobbled gears; 3-jaw gear chuck and key. No-load speed, 925 rpm; full-load speed, 610 rpm. Polished die-cast aluminum housing. With 6-ft. 3-wire cord and plug. Length, 8 1/2". U.L. Listed; industrially rated. For 110-120 v., AC-DC. Less drill bit. Wt. 5 lbs.

51 N 178. \$5 Monthly.....22.95



Model 118B \$16.95

1/4 HP Model 128B \$27.95

THOR MEDIUM AND HEAVY-DUTY BENCH GRINDERS

MODEL 118B. Light-to-medium-duty 1/2-hp grinder with burnout-proof motor for the small shop, garage or home shop. Dependable motor has no-speed of 3450 rpm. Lightweight aluminum body—easy to carry to any location. Has water-cooling tray, tool rest, dust shields and protective eye shields. The 118B is complete with two grinding wheels (40 and 70-grit), 4 1/2" with 3/8" center holes; 6-ft. 3-wire cord. Length, 9 1/4". U.L. Listed. For 110-120 v., 60 cycle A.C. Shpg. wt., 7 3/4" lbs.

1890.....16.95

MODEL 128B. Improved "Speed Grinder" for heavier jobs around the shop and home. Burnout-proof, 1/4-hp shaded-pole motor gives 3450-rpm no-load speed—has self-aligning bearings that need no oil. Also has tool rests with angle guides, and reinforced protective eye shields. Lightweight portable cast-aluminum body has rubber feet. Two grinding wheels (46 and 75-grit), 6x3 3/4" with 1/2" center holes. Overall length, 16". With 6-ft. 3-wire cord. U.L. Listed. For 110-120 v., 60 cycle A.C. Wt., 25 lbs.

50 NU 851. \$5 Monthly.....27.95

THOR 1/4 HP DELUXE BENCH GRINDER



\$37.95 \$5 monthly

MODEL 130B. Does heaviest jobs with ease. highly efficient 1/2-hp, burnout-proof, ball-bearing motor with no-load speed of 3450 rpm. Has removable plastic quench tray, die-cast tool rests with angle guides, parts tray, reinforced protective eye shields and adjustable spark arresters. Lightweight, portable die-cast aluminum-alloy housing with protective rubber feet. With two grinding wheels (46 and 75-grit), 6x3 3/4" with 1/2" center holes. Length, 16". Heavy-duty 6-ft. 3-conductor lead cord. U.L. Listed. For 110-120 volts, 60 cycle A.C. Wt., 27 lbs.

50 NU 868. \$5 Monthly.....37.95



Power Tools for Light and Heavy Work

HEAVY-DUTY BALL-BEARING SAWS



A \$74⁹⁵

C \$57⁹⁵

B \$67⁹⁵

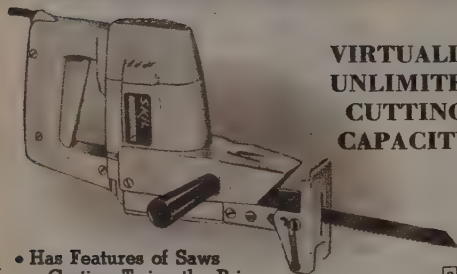
D \$26⁴⁵

E \$49⁹⁵

QUALITY FEATURES ON CIRCULAR SAWS

- Safety Clutch
- Bind-Free Guard
- Easy-to-Set Depth and Bevel Controls

F \$38⁹⁵



VIRTUALLY UNLIMITED CUTTING CAPACITY

- Has Features of Saws Costing Twice the Price
- Four-Directional Blade
- Cuts 6" Logs, Fine Wood
- 3-Position Foot for Every Type of Cut
- For Contractors, Tradesmen, and Homeowners

G \$36⁹⁵

A MODEL 554 HEAVY-DUTY 8 1/4" CIRCULAR SAW

Has the power and cutting capacity for continuous or professional use. Husky 13-amp ball-bearing motor develops over 2 hp. Employs 3 long-wearing ball bearings, needle bearing and helical gears. 81 blade cuts vertically from 1/16" to 2 3/8" at 90°; maximum depth, 2 1/2" at 45°. No-load speed, 5200 rpm. Has exclusive blade lock for fast, easy blade changes; anti-kickback safety clutch; sawdust blower, easy-to-set depth control; protractor; bind-free blade guard. 3-wire cord, plug; 2-prong adapter. U.L. Listed. For 110-120 v., A.C. Shpg. wt., 17 lbs.

50 NU 874. \$5 Monthly..... 74.95

B MODEL 553 HEAVY-DUTY 7 1/4" CIRCULAR SAW

Same features as Model 554, but has 12-amp, 2-hp motor; cuts from 1/16" to 2 3/8" at 90°. Maximum depth, 1 7/8" at 45°. Depth control, protractor, safety clutch, etc. Shpg. wt., 16 lbs.

45 NX 222. \$5 Monthly..... 67.95

C MODEL 552 HEAVY-DUTY 6 1/2" CIRCULAR SAW

Similar to above, but with 10-amp motor that develops over 1 1/2 hp. Cuts from 1/16" to 2 3/8" at 90°; max. depth 1 3/4" at 45°. No-load speed, 5800 rpm. 10 1/4" long. Shpg. wt., 15 lbs.

50 NX 533. \$5 Monthly..... 57.95

D MODEL 524 ECONOMY JIG SAW WITH 3 BLADES

Lightweight, orbital-action jig saw cuts any material from wood to steel. Crosscuts, rips, scrolls, notches and bevels up to 45°. Cuts intricate patterns; makes its own starting hole for pocket cuts. Cuts soft woods up to 2" at 90°; 1 1/4" at 45°; soft metals to 1/2"; mild steels to 3/8". 2.3 amp motor provides 3700 % strokes-per-minute, no-load. Anti-friction self-lubricating bearings. 7 1/2" long. With 3 wood-cutting blades, wrench, 3-wire cord and adapter. U.L. Listed. For 110-120 v., A.C. Shpg. wt., 5 1/2 lbs.

50 N 519. \$5 Monthly..... 26.45

E LOW-COST MODEL 537 7 1/4" CIRCULAR SAW

10-amp motor develops 1 1/2 hp. All the top Skil features: anti-kickback clutch, sawdust blower, blade lock, easy-setting depth control, etc. Cuts from 1/16" to 2 3/8" at 90°; depth of cut at 45°, 1 7/8". No-load speed, 5150 rpm. 12" long. With combination blade, wrench, 3-wire cord and plug, 2-prong adapter. U.L. Listed. For 110-120 v., A.C. Shpg. wt., 17 lbs.

50 NX 486. \$5 Monthly..... 49.95

F ECONOMY MODEL 536 6 1/2" CIRCULAR SAW

9-amp, 1-hp motor. Cuts from 1/16" to 2 3/8" at 90°; 1 3/4" at 45°. Safety clutch, depth and angle controls, sawdust blower, bind-free low blade guard. No-load speed, 6300 rpm. Length, 9 1/2". With combination blade, blade wrench; 3-wire cord, 2-prong adapter. U.L. Listed. For 110-120 v., A.C. Shpg. wt., 12 lbs.

50 NX 534. \$5 Monthly..... 38.95

G MODEL 577 "RECIPRO-SAW" WITH 3 BLADES

Totally new kind of power saw. Cuts anything from 6" logs to 6" plastic sheeting. Makes rip, miter, bevel, straight, flush cuts. Double reduction gears, adjustable foot, 3-position side handle. 3-amp motor gives 2000 3/4" strokes/min. 11 3/4" long. With 3 blades (Type 25922, 1—Type 20538, 1—Type 20541, described below) 3-wire cord, plug; 2-prong adapter. U.L. Listed. For 110-120 v., A.C. Shpg. wt., 6 1/2 lbs.

50 NX 789. \$5 Monthly..... 36.95

ACCESSORY BLADES FOR MODEL 577 SAW

50 N 790. Type 23608 6" Metal-Cutting Blade. Wt., 2 oz..... 6.95

50 N 793. Type 23606 6" Plaster-Cutting Blade. Wt., 2 oz..... 2.95

50 N 795. Type 20538 4" Wood Scroll Blade. Wt., 2 oz..... 6.95

50 N 796. Type 20541 4" Multi-Purpose Blade. For fast roughing cuts in wood with nails, soft metals, etc. Wt., 2 oz..... 2.95

50 N 797. Type 20543 12" Multi-Purpose Blade. Wt., 2 oz..... 4.95

50 N 875. Type 25922 9" Wood-Cutting Blade. Special design for heavy wood cutting. Shpg. wt., 3 oz..... 7.95

Put Aside Your Hand Tools—Put POWER to Work

VERSATILE HEAVY-DUTY SAWS



A WEN MODEL 920 ALL-PURPOSE ZIPP SAW
Industrial-rated $\frac{1}{2}$ -hp, $4\frac{1}{4}$ -amp motor. Saws up to 6" timbers, 2"
Features heavy-duty roller and oilite bearings; hardened gears.
Scrolls, curves, straight- and flush-cuts in wood, metal, plastic,
Even starts its own hole! Air stream clears dust from work for
blade-viewing. Delivers 3200 1" strokes per minute. Conven-
saw grip; auxiliary grip handle; safety release switch. Includes
sorted blades. Polished aluminum housing. With 3-wire, 8-ft.
plug. U.L. Listed. For 110-120 v., 50-60 cycle AC. Shpg. wt.,
1 lb.
873. \$5 Monthly..... 32.88

B WEN MODEL 909 HEAVY-DUTY "ALL-SAW"
3-hp, 6-amp motor. For straight cuts, arcs and circles in wood,
aluminum, tile, etc. Cuts $\frac{1}{2}$ " metals, 6" wood; cuts 6x6's at 90°, cuts
squares at 45°. Makes inside cuts. Has oilite bearings, hardened gears.
0—1" strokes/min. Sawdust blower; adjustable rip guide. 3-wire
UL, 2-prong adapter. $7\frac{1}{2}$ x7x8". With 7 asstd. blades. U.L. Listed.
110-120 v. AC-DC. Shpg. wt., $8\frac{1}{4}$ lbs.
236. \$5 Monthly..... 32.88

C THOR-SPEEDWAY MODEL 805 JIG SAW
Burn-out proof 3-amp motor with no-load speed of 3000—5% strokes
per minute. Helical-cut steel gears. Cuts up to 2" in soft wood; $\frac{1}{2}$ "
steel. Adjustable plate for cutting 45° angles on either side; also
scrolls, circles, straight cuts and rips. Self-oiling, bronze
y bearings. With 2 wood-cutting blades; 1 metal-cutting blade;
chip fence; rip fence; circle cutter; guiding handle. U.L. Listed. For
110-120 v., AC or DC. Shpg. wt., 5 lbs.
830. \$5 Monthly..... 14.95

NEW! THOR-SPEEDWAY MODEL 801CS 7" SAW
Improved Version of Model 800—Now with 32-Bar Commutator
Industrial-Rated, Burn-Out Proof Motor is Welded—Not Soldered
8-amp motor develops 1.2 hp. Provides positive "bite" in hard
wood. Has self-lubricating bearings. Cuts $\frac{1}{4}$ " to $2\frac{1}{8}$ " $1\frac{3}{4}$ " at 45°.
safety-slip clutch that eliminates blade kick-back. No-load speed,
1000 rpm. With blade guard, rip fence, guiding handle, protractor
angle cuts and 3-wire cord. U.L. Listed. For 110-120 v., AC or
Shpg. wt., 15 lbs.
157. \$5 Monthly..... 22.95

PLANE ATTACHMENT FOR ROUTER AT RIGHT
SKIL MODEL 3650. Attaches to router motor. For fast edgings
doors, windows, cabinets, etc. Cuts $2\frac{1}{2}$ " width. Depth adjusts
to $\frac{1}{8}$ ". 15° outward bevel adjustment; 45° inward. Micrometer
leveling. 16° shoe; chip deflector. Includes spindle, spiral cutter
wrench. Shpg. wt., $7\frac{1}{4}$ lbs.
136. \$5 Monthly..... 52.95

THOR SpeedWay



NEW Plane Attachment For Router



F SKIL 297 HEAVY-DUTY $\frac{3}{4}$ H. P. ROUTER
 $6\frac{1}{2}$ -amp, $\frac{3}{4}$ -hp router for trimming, cove-cutting, rabbeting and
decorative cutting. Also mortises, dados, grooves and beads. All
ball bearings. No-load speed, 23,000 rpm. With $\frac{1}{4}$ " collet and
wrench; 3-wire cord and plug. $6\frac{1}{2}$ " high. U.L. Listed. For 110-
120 v., AC or DC. Shpg. wt., 8 lbs.
50 NX 544 \$5 Monthly..... 64.50

ROUTING BITS FOR ABOVE. Straight bits; 2 flutes; $\frac{1}{4}$ " shank
diameter; 1" shank length. Shpg. wt., 2 oz.
50 N 545. With $\frac{1}{4}$ " tip diameter. $\frac{1}{4}$ " cutting length..... 1.75
50 N 546. With $\frac{3}{8}$ " tip diameter. $\frac{1}{4}$ " cutting length..... 2.40
50 N 547. With $\frac{1}{2}$ " tip diameter. $1\frac{1}{32}$ " cutting length..... 2.90

G SKIL 16890 EDGE-GUIDE FOR 297 ROUTER
Straight and circular edge-guide easily attaches to Model 297 router.
Lets you accurately space grooves, dados, rabbets, etc., up to
5" away from edge of wood. Shpg. wt., 14 oz.
51 N 137..... 4.25

Precision Power Tool Kits and Spraying Equipment



TOOL KITS AND NEW SCROLL SAW

A MODEL 2 MOTO-TOOL KIT

Compact precision "machine shop." Sands, polishes, saws, drills etc. Includes: Model 221, 27,000-rpm Moto-Tool; chuck; 3 collet finger-grip; 4 emery wheel points; dressing stone; 8 steel cutters; and steel saw; 5 bristle brushes; 1 steel brush; shoulder mandrel with sanding disc; screw mandrel with felt wheel; drum sander; case U.L. Listed. For 110-120 v., AC or DC. 4 lbs.

46 N 378. \$5 Monthly.....22.95
50 N 598. Model 221 Moto-Tool Only. 4 lbs.....15.75

B NEW! DREMEL 501 ELECTRIC SCROLL SAW

Easily cuts intricate scroll work—saws wood up to 3/4" thick, asphalt rubber and plastic floor or wall tiles, aluminum and light metals. High-speed motor—7200 strokes per minute. Cuts in any direction 9 1/4" throat permits cutting to center of 19" circle. Nylon case, 8 1/2" 10 3/4", chrome plated tubular saw frame. With 7 blades. For 110-120 v., 50-60 cycle AC. 3 lbs.

51 N 127.....10.45
51 N 128. Pkg. of 12 Replacement Blades.....PER PKG., 49

C MODEL 572 DELUXE MOTO-SHOP KIT

Features 15" jig saw with power takeoff and disc sander attachment. Saw has tilting table, 3450-rpm ball-bearing rotary motor, blade guard. Kit also includes 4 saw blades; rubber backer; adapter; sanding discs; grinding wheel; cloth buffing wheel; wire brush wheel; wheel guard; polishing compound stick; and 12-pc. set of abrasive wheels, collet adapters, router, brush and drill. U.L. Listed. For 110-120 v., 60 cycle AC. 17 lbs.

46 NX 952. \$5 Monthly.....38.95

D JOHNSON 1/4 HORSEPOWER PAINT SPRAYER

High-efficiency, portable, compressed-air paint sprayer for use in the home or small shop. Sprays all types of paint, insecticides, weed killers, and fertilizers. Driven by a powerful 1/4 hp motor. Piston-type compressor and motor equipped with heavy-duty, sealed ball bearings. Supplied with spray gun, fan nozzle, 15-foot of air hose, line chuck, and insulated cord. For 110-120 v., 60 cycle AC. Shpg. wt., 30 lbs.

51 NU 129. \$5 Monthly.....59.65

E ATLAS PROFESSIONAL PAINT SPRAYER

Improved compressor-type sprayer featuring precision-machined piston and honed cast-iron cylinder. Internal-mix, pressure-type gun gives wide, uniform fan spray. With 1-qt. aluminum container; 2 spray nozzles; 10-ft. hose; and fan-cooled, universal 1/8-hp motor. For operation from 110-120 v., AC or DC. 10 lbs.

50 NX 813. \$5 Monthly.....22.95

47 N 089. Extra 1-Quart Container. Wt., 3/4 lb.....1.19

47 NX 085. Metal Carrying Case. Wt., 2 1/2 lbs.....3.25

F WEN MODEL 930 HAND PLANE

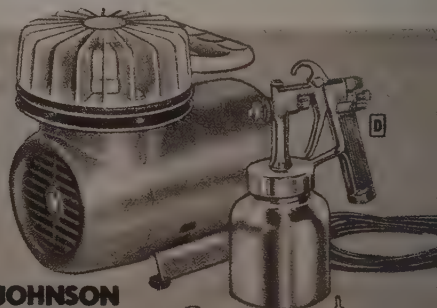
Features a powerful 1/2-hp, 6-amp air-cooled motor that is burnout-proof. 14,500 rpm no-load speed. Twin 2" diameter cutters are separately adjustable, cut 2 1/2" wide and up to 1/4" deep. Mitre guide plate is adjustable up to 45°, removable for surface planing. Has air-stream chip-ejector, balanced lightweight aluminum housing, finger-control trigger switch. Overall size, 7 1/2 x 7 x 16". U.L. Listed. For 110-120 v., AC. 9 lbs.

51 NX 091. \$5 Monthly.....32.88

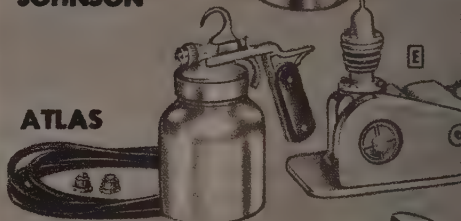
G BURGESS MODEL 73 DELUXE VIBRO-GRAVER

Engraves steel, glass, aluminum, plastics, ceramics, brass, stone, wood, etc. Handles like a pencil—vibrator motor delivers 7200 strokes per minute for fast, clean, permanent engraving. Excellent for factories, labs, homecraft and hobby shops. Compact and easy to operate—anyone can use it skillfully with just a few minutes experience. Includes tantalum carbide point. For 110-120 v., 50-60 cycle AC. Shpg. wt., 1 lb.

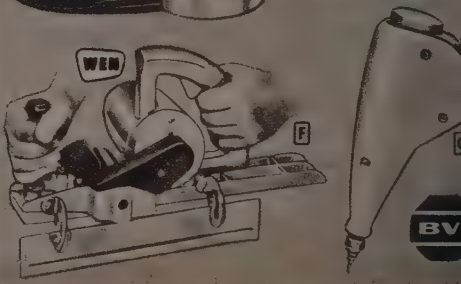
55 N 556.....9.69



JOHNSON



ATLAS



WEN

Selected, Professional-Quality Power Tools

WEN, NIBBLER AND NEW SHEAR

WEN MODEL 910 DELUXE 3" BELT SANDER

For the toughest sanding jobs with powerful $\frac{1}{2}$ -hp, $4\frac{1}{4}$ -amp motor. Belt speed 850 ft./min. Sawdust blower; quick, easy belt change-outour grip. With coarse, medium and fine sanding belts; and ard. $5\frac{3}{4} \times 5\frac{1}{2} \times 1\frac{1}{2}$ " For operation from 110-120 v., 50-60 cycle appg. wt., 9 lbs.

005. \$5 Monthly.....32.88

006. Extra Coarse Sanding Belt. 60 grit. 3 oz.....52¢

007. Extra Medium Sanding Belt. 80 grit. 3 oz.....52¢

008. Extra Fine Sanding Belt. 120 grit. 2 oz.....52¢

B SKIL MODEL 405 4" BELT SANDER

For powerful 7-amp motor, ball and sleeve bearings. Motor $4 \times 21\frac{3}{4}$ " belt at 1350 ft./min. Flush design lets you sand up to al edges. Control knob keeps belt centered on pulleys. Has die- aluminum housing. $6\frac{3}{4} \times 6\frac{3}{4} \times 12\frac{1}{2}$ ". With belt, 3-wire cord, 2- adapter. U.L. Listed. For operation from 110-120 v., AC or DC. wt., 15 lbs.

328. \$5 Monthly.....66.99

078. Box of 10 Assorted Belts. $1\frac{1}{2}$ lbs.....6.60

SKIL MODEL 592 DELUXE ORBITAL SANDER

For buffing, polishes—full 25 sq. in. pad. Sands to vertical edges to corners. $2\frac{1}{2}$ -amp motor with self-lubricating bearings; 5000 r.p.m. Lightweight for vertical and overhead use. With 3 and $3\frac{1}{2} \times 9$ " sanding sheets (60, 100 and 150 grit), 3-wire cord, ng adapter. $6\frac{1}{2} \times 9\frac{3}{8} \times 3\frac{3}{8}$ ". U.L. Listed. For 110-120 v., AC or hpq. wt., 7 lbs.

520.....27.97

096. Lambs' Wool Polishing Pad. $\frac{1}{4}$ lb.....1.12

WELLER MODEL 77 RECIPROCAL POWER SANDER

Rotating 4.8-amp motor is fan-cooled, drives unit at 14,400 r.p.m. Stroke length, $\frac{3}{4}$ "; sanding area 26 square inches. Adjustable side handle can be inserted on either side of tool. Uses " sanding sheets (not included). Rugged plastic case, 9" long. ed complete with 8-ft. cord. U.L. Listed. For 110-120 v., 60 AC. Shpg. wt., $6\frac{1}{2}$ lbs.

670.....14.66

E THOR-SPEEDWAY 821 ORBITAL SANDER

For $4\frac{1}{2} \times 5\frac{1}{2}$ " sanding area and a $\frac{1}{8}$ " orbit that duplicates manual hand-sanding. Has 1.8 amp motor with no load speed of 2000 r.p.m. Virtually burnout-proof. Uses $4\frac{1}{2} \times 6\frac{1}{2}$ " sandpaper sheets (not included). Mirror-finished housing. With 3-wire cord, 2- adapter. U.L. Listed. For operation from 110-120 v., 50-60 AC. Shpg. wt., $5\frac{1}{2}$ lbs.

829.....12.75

F SKIL MODEL 566 NIBBLER

For fast (40° of 18 gauge in 1 minute) and smooth without curling sanding either cut edge. Makes straight, curved, template or n cuts in corrugated and other metals. Inside cuts from any ia. starting hole. Has built-in chip ejector; long-lasting carbide a; 3-amp motor; 1 needle and self-lubricating bearings; no- speed. 750 strokes p/m. U.L. Listed. For 110-120 v., 50-60 cycle Shpg. wt., $6\frac{1}{2}$ lbs.

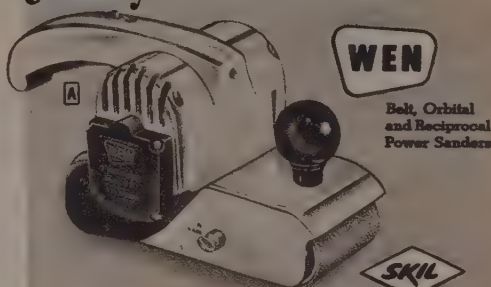
980. \$5 Monthly.....49.50

008. Extra Punch. 8 oz.....7.50

G NEW! BURKE-DOCKEN POWER SHEAR

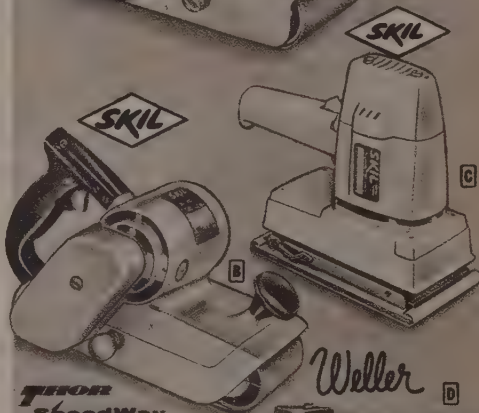
For new, lightweight, electric power-shear that easily cuts up to 18 g mild steel, aluminum, brass or copper sheet metals, and up to thick formica and laminated plastics. Fast operating—2200 ng strokes per minute (no load). Hardened jaws leave a neat, mped edge on cut material. Powerful 3.1 amp burn-out proof features a 22-bar commutator and ball and needle bearing ruction. Unit is housed in a rugged, die-cast, polished alumi- case. Readily portable, it is ideal for use in sheet metal work in auto body shops and in plastic work. With 10-foot cord. U.L. d. For 110-120 volts AC or DC. Shpg. wt., 5 lbs.

K 130.....69.50



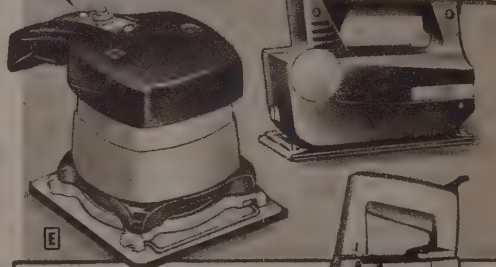
WEN

Belt, Orbital and Reciprocal Power Sanders



THOR
SpeedWay

Weller



NEW!

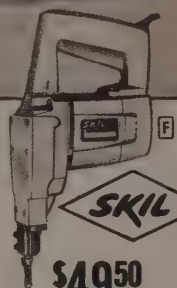
BURKE-DOCKEN

POWER
SHEAR



\$69.50

\$5
monthly

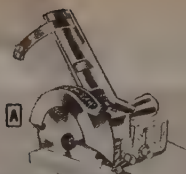


\$49.50
\$5
monthly

FEATURES

- Cuts Sheet Metal Up to 18 Gauge
- Cuts 120 Inches Per Minute
- Cuts Plastics and Formica To $\frac{1}{8}$ "
- 3.1 Amp Ball and Needle Bearing Motor
- Leaves Clean Edge; Easily Portable

ARCO



SAWS AND DRIVERS by ARCO

A MODEL 460 CIRCULAR SAW. Slide-lock fits any $\frac{1}{4}$ " drill. Detachable Dado Arbor swivels blade to cut grooves to $\frac{1}{2}$ " wide, 1" deep. Cuts 2x4's. Depth and bevel gauges—cuts to $1\frac{1}{4}$ ", bevels to 45°. Right-angle steel gear drive. Self-lubricating bearings. With adjustable rip gauge, yoke, 5" blade. 4 lbs.

50 N 840.....8.63

B MODEL 560 JIG SAW. Fits any $\frac{1}{4}$ " drill. Adjustable circle cutter, rip gauge—cuts circles to 20" dia., rips to 10" wide. Cuts 2x4's, plastic, metal, etc. Has right-angle drive; self-lubricating bearings, saw-dust blower. With blade. Shpg. wt., 2½ lbs.

50 N 231.....6.63

50 N 232. 6 Extra Blades. 2 each—coarse, medium, fine-tooth. $\frac{1}{2}$ lb.....1.39

C MODEL 750 12-PC. SCREW-NUT DRIVER SET. For any drill. Non-slip clutch idles until pressure is applied, disengages when screw or nut is tightened. 2 flat bits with bit holders for #4-8 and #8-14 slotted screws; #2 Phillips head bit; 6 hex socket wrenches ($\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "); 2 square sockets ($\frac{1}{4}$ ", $\frac{5}{16}$ "); and holder with ball-lock. With complete instructions. Shpg. wt., 1 lb.

50 N 955.....4.95



FAST-CUTTING DRILL BITS FOR EVERY PURPOSE

CENTURY "MAGIC BLACK" and SPECIAL-PURPOSE DRILLS

D 15-DRILL SET. $\frac{1}{16}$ " to $\frac{1}{2}$ " in 32nds. Sizes over $\frac{1}{4}$ " have $\frac{1}{4}$ " shanks. Case, 7x4x1½". Wt., 3 lbs.

46 N 786.....18.95

13-DRILL SET. Includes 13 drills, $\frac{1}{16}$ " to $\frac{1}{4}$ " in 64ths. In Huot Index Drill Case, 4¾x2x¾". 9 oz.

46 N 782.....5.85

60-DRILL SET. Sizes 1-60 in steel Huot Index case. Opens like book for quick access. 4¾x3¾x2½". 1½ lbs.

46 N 717. \$5 Monthly.....23.60

E 6-PC. HIGH-SPEED POWER BIT SET. $\frac{3}{8}$ " to 1" in 16ths. All have $\frac{1}{4}$ " shanks. Plastic pouch. 12 oz.

50 N 350.....5.35

F 4-PC. MASONRY DRILL SET. $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " drills; $\frac{1}{4}$ " shanks. Carbide tips for drilling concrete, plaster, etc. In plastic roll. 5 oz.

46 N 718.....2.95

G MECHANICS' LENGTH. High-speed drills $\frac{1}{16}$ " to $\frac{1}{2}$ ". $\frac{1}{4}$ " and larger have $\frac{1}{4}$ " shanks. Av. wt. 3 oz.

Stock No.	Size	EACH	Stock No.	Size	EACH
49 N 656	$\frac{1}{16}$ "	.22	49 N 664	$\frac{3}{16}$ "	.44
49 N 657	$\frac{1}{8}$ "	.22	49 N 666	$\frac{7}{32}$ "	.50
49 N 658	$\frac{3}{16}$ "	.23	49 N 667	$\frac{1}{4}$ "	.60
49 N 659	$\frac{1}{2}$ "	.26	49 N 668	$\frac{5}{8}$ "	.86
49 N 660	$\frac{1}{4}$ "	.30	49 N 627	$\frac{1}{2}$ "	1.10
49 N 661	$\frac{3}{8}$ "	.30	49 N 029	$\frac{3}{4}$ "	1.50
49 N 662	$\frac{1}{2}$ "	.35	49 N 033	$\frac{1}{2}$ "	2.70
49 N 663	$\frac{3}{4}$ "	.38	49 N 034	$\frac{1}{2}$ "	2.70

H 10-DRILL SET. Ten drills from $\frac{1}{16}$ " to $\frac{1}{2}$ ". $\frac{1}{4}$ " shanks on sizes over $\frac{1}{4}$ ". Indexed transparent plastic container. Wt. 9 oz.

50 N 968.....7.95

KNEISLEY MINIATURE DRILLS

J KS-1115 DRILL SET. 20 drills from No. 61 (.039") to No. 80 (.0135"). High-grade carbon steel. 4-jaw chuck, $\frac{1}{8}$ " shank. Lucite case. Wt., 6 oz.

46 N 799.....6.25

HANDY POWER-DRILL ACCESSORIES



K BARCO KNIFE/SCISSORS SHARPENER. Fits any $\frac{1}{4}$ " drill. Beveled groove between grinders sharpens knives; cup-guide on shaft holds scissors at proper sharpening angle. Wt., 5 oz.

50 N 377.....75¢

L GENERAL-HARDWARE CIRCLE CUTTERS. Round shank for drill press; square shank for hand brace. Removable pilot drill and cutter blade. Av., 8 oz.

Stock No.	Shank	Hole Size	EACH
45 N 600	Round $\frac{1}{4}$ "	$\frac{1}{8}$ "-4"	1.69
45 N 602	Square 1"	1"-6"	2.10
45 N 603	Round $\frac{3}{8}$ "	1"-6"	2.10
45 N 350	Round $\frac{1}{2}$ "	1"-6"	2.10
45 N 351	Round $\frac{1}{2}$ "	$1\frac{1}{4}$ "-8"	4.64

45 N 610. Extra Blades. 4 oz.....44¢

M BARCO 825 3-TO-1 SPEED REDUCER. Fits $\frac{1}{4}$ " drills. Drives up to No. 14 screw. Instantly and automatically reverses tapping up to 5 holes per minute. For tapping where tremendous torque is necessary. Includes $\frac{1}{4}$ " and $\frac{1}{2}$ " adapter, adapter sleeve, screwdriver bit with fine sleeve. 3 lbs.

50 N 005.....10.25

N AERO "ROTO-PLANE." Fits $\frac{1}{4}$ " and $\frac{3}{8}$ " drills. For smooth edge planing doors, windows, screens, cabinet work. One hand operation. Depth of cut, 0 to $\frac{1}{4}$ " width, to $1\frac{3}{4}$ ". Hardened, ground helical rotary blade. Guide edge for true 90° planing. With clamp for quick attachment to your drill. 3 lbs.

50 N 954.....6.75

UNIVERSAL SAW BLADES AND SAW ACCESSORIES

P CHICAGO SAW UNIV. CIRCULAR BLADES. Fit diamond, $\frac{1}{2}$ ", $\frac{5}{8}$ " rmd. arbors. *Chisel tooth. Wt., 1 lb.

Stock No.	Type	Dia.	Style	EACH
50 N 563	C-612-UN	6½"	Comb.*	1.51
50 N 564	C-714-UN	7-7½"	Comb.*	1.51
50 N 964	C-814-UN	8-8½"	Comb.*	1.80
50 N 565	L-612-UN	6½"	Cut-off	1.51
50 N 566	L-714-UN	7-7½"	Cut-off	1.51
50 N 963	L-814-UN	8-8½"	Cut-off	1.80
50 N 567	A-612-UN	6½"	Rip	1.51
50 N 568	A-714-UN	7-7½"	Rip	1.51
50 N 962	A-814-UN	8-8½"	Rip	1.80

S SKIL 17984 RIP FENCE. For Model 536 saw. Wt., 4 oz.

50 N 278.....1.37

50 N 969. 20271 Rip Fence. For 552, (6-9), 553 (3-6), 554 (3-6). 4 oz.....1.75

50 N 970. 25174 Rip Fence/Circle-Cutter. For Model 524 saw. Wt., 4 oz.....1.30

R SKIL UNIVERSAL JIG-SAW BLADES. Replace $\frac{1}{4}$ " shank blades. Blades available with both coarse and fine teeth. Av. shpg. wt., $\frac{1}{2}$ lb. 5 per package.

Stock No.	Use for	Blade	PK
50 N 965	Heavy metal	Coarse	4.2
50 N 966	Light metal	Coarse	4.2
50 N 445	Heavy wood	Coarse	3.7
50 N 446	Wood & plastic	Fine	3.7
50 N 447	Thin wood	Fine	3.7
50 N 448	Roughing cuts	Coarse	2.1
50 N 449	Roughing cuts	Fine	2.1

T SKIL SAW CARRYING CASE. Durable heavy-gauge steel case withstands rough handling. Special brackets hold saw—protect it from damage and unnecessary wear. Brackets also protect extra blades from dinging and bending. For Skil 5½", 6½", 7½", 8½" saws. 12 lbs.

50 NX 827.....11.95



Alloy-Steel Socket and Tool Sets

by STEVENS-WALDEN

60-PIECE $\frac{1}{2}$ " and $\frac{1}{4}$ " DRIVE SOCKET and TOOL COMBINATION SET

Combination set of most-often-used tools. Includes 19— $\frac{1}{2}$ " drive sockets: 13—regular 12-pt. sockets, sizes $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{19}{32}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ ", $\frac{15}{16}$ ", 1"— $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ "—round-head ratchet; hinge handle; 1—speeder; 1—5" extension; 1—10" extension; 1—link screwdriver bit. 15— $\frac{1}{4}$ " drive pieces in separate metal box—hex sockets, sizes $\frac{3}{16}$ " to $\frac{7}{16}$ " in $\frac{1}{32}$ " steps; 3—regular sockets, sizes $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ "; 1—reversible ratchet; 1—hinge handle; 1—cross bar; 1—3" extension. 9—open end wrenches, sizes each end $\frac{5}{16}$ "- $\frac{11}{32}$ ", $\frac{3}{8}$ "- $\frac{7}{16}$ ", $\frac{7}{16}$ "- $\frac{1}{2}$ ", $\frac{1}{2}$ "- $\frac{9}{16}$ ", $\frac{9}{16}$ "- $\frac{5}{8}$ ", $\frac{11}{16}$ "- $\frac{3}{4}$ ", $\frac{3}{4}$ "- $\frac{7}{8}$ ", $\frac{15}{16}$ "-1". 4—box-end wrenches, on each end $\frac{3}{8}$ "- $\frac{7}{16}$ ", $\frac{1}{2}$ "- $\frac{9}{16}$ ", $\frac{3}{4}$ "- $\frac{1}{2}$ ", $\frac{3}{4}$ "- $\frac{25}{32}$ ". Also: 1—niter punch; 1—chisel; 7—wrench keys, sizes $\frac{5}{64}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{7}{32}$ ", $\frac{1}{4}$ " in plastic pouch. In metal box, $20\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{3}{4}$ ". Removable tray. Shpg. wt., 21 lbs.

U 284D. \$5 Monthly.....39.95

24-PIECE $\frac{3}{8}$ " and $\frac{1}{4}$ " DRIVE SOCKET SET

Combines best features of the $\frac{3}{8}$ " and $\frac{1}{4}$ " drive sets. Ideal for the repairman, radioman or mechanic. Consists of: 17 sockets—regular 12-pt. sockets, sizes $\frac{3}{8}$ " to $\frac{3}{4}$ " in $\frac{1}{32}$ " steps; 7 hex sockets, drive, sizes $\frac{3}{16}$ " to $\frac{3}{8}$ " in $\frac{1}{32}$ " steps; 3 regular 8-pt. sockets, drive, sizes $\frac{1}{4}$ ", $\frac{9}{16}$ " and $\frac{3}{8}$ "; 1— $\frac{3}{8}$ " to $\frac{1}{4}$ " adapter; 1—round $\frac{3}{8}$ " ratchet; 1— $\frac{1}{4}$ " spinner handle; 1—6" extension, $\frac{3}{8}$ " drive; 1—extension, $\frac{3}{8}$ " drive; 1— $\frac{1}{4}$ " spark plug socket with proven neoprene insert. In metal tool box. $11\frac{1}{2} \times 4\frac{3}{4} \times 1\frac{3}{4}$ ". Shpg. $4\frac{1}{2}$ lbs.

X 245D. \$5 Monthly.....13.50

16-PIECE $\frac{1}{4}$ " DRIVE SOCKET SET

Excellent set for radio and electrical repair, industrial, mechanical instrument work. Consists of: 11 sockets—4 regular 12-pt. sockets, sizes $\frac{5}{16}$ ", $\frac{1}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ "; 4 hex sockets, sizes $\frac{3}{16}$ ", $\frac{7}{32}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ "; 3 regular 8-pt. sockets, sizes $\frac{1}{4}$ ", $\frac{9}{16}$ " and $\frac{3}{8}$ "; 1— $\frac{3}{8}$ " to $\frac{1}{4}$ " adapter; 1—round $\frac{3}{8}$ " ratchet; 1—hinge handle; 1—cross bar; 1—3" extension; metal box, $2\frac{3}{4} \times 1\frac{1}{4} \times 1\frac{1}{2}$ lbs.

X 09D.....7.95

21-PIECE $\frac{3}{8}$ " DRIVE SOCKET SET

Complete, compact set of handy socket wrenches for the home owner automotive mechanic. Consists of: 15 sockets—7 regular 12-pt. sockets, sizes $\frac{3}{8}$ " to $\frac{3}{4}$ " in $\frac{1}{32}$ " steps; 8 deep 12-pt. sockets, sizes $\frac{3}{8}$ " to $\frac{3}{4}$ " in $\frac{1}{32}$ " steps; 1—hinge handle; 1—cross bar; 1—universal $\frac{3}{8}$ " ratchet; 1—3" extension; 1—round-head reversible ratchet; metal box, $4\frac{3}{4} \times 1\frac{3}{4} \times 1\frac{3}{4}$ ". 4 lbs.

X 243D.....13.95

17-PIECE $\frac{1}{2}$ " DRIVE SOCKET SET

Consists of: 11—regular 12 pt. sockets, sizes $\frac{7}{16}$ " to 1" in $\frac{1}{16}$ " steps, $\frac{1}{4}$ "-1"; 1—5" extension; 1—10" extension; 1—flex handle; 1—speeder; 1—reversible ratchet; and metal box, $16\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. $7\frac{3}{4}$ lbs.

X 244D. \$5 Monthly.....19.50

Socket sets described above are of hot-forged, alloy steel. Meet U.S. Government specs. Chrome plated. American made.

DIETZGEN SLIDE RULES

MODEL 1734L DECIMAL TRIG-TYPE LOG LOG. Precision 10" rule for the scientist... for the professional! Virtually on-free gliding action over smooth on grooves. Never too tight—never too loose. Sharp, non-yellowing, engine-divided scales. All scales relate to each other logarithmically—no "special" scales requiring special calculations. Scales: LL02, LL03, DF, CF, L, CI, C, D, LL3, LL2; other side, LL01, L, B, T > 45, T < 45, ST, S, D, DI, LI, S. T scales divided to read degrees and minutes of degrees. With leather carrying case and complete instructions. Shpg. wt., 1 lb.

NC 089. \$5 Monthly.....23.95

MODEL N1725L VECTOR-TYPE LOG LOG. Includes all scales found on Model 1734L at left, plus Hyperbolic Sine and Tangent scales (Sh1, Sh2, Th). Pure white facings on seasoned mahogany. In genuine sewed-leather carrying case with exclusive data slip containing conversion tables and trig-geometry formulae and manual. Shpg. wt., 1 $\frac{1}{4}$ lbs.

49 NC 083 \$5 Monthly.....25.95

MODEL 1776 5" POCKET SLIDE RULE. Scales: DF, CF, CIF, CI, D, C, L, K, A, B, T, ST, S, DI. Leather case; pocket clip, instructions. 5 oz.

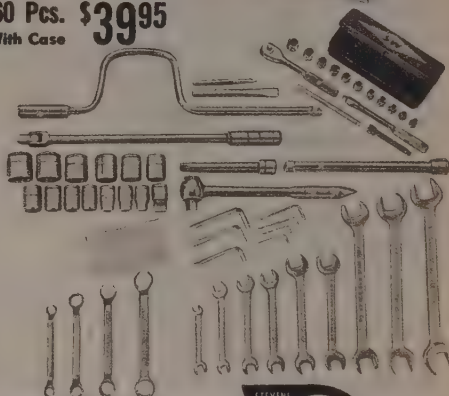
49 NC 084.....5.35



$\frac{1}{2}$ " AND $\frac{1}{4}$ " DRIVES

60 Pcs. \$39.95

With Case



$\frac{1}{4}$ " DRIVE

16 Pcs. \$7.95

With Case



$\frac{3}{8}$ " AND $\frac{1}{4}$ " DRIVES

24 Pcs. \$13.50

With Case



$\frac{3}{8}$ " DRIVE

21 Pcs. \$13.95

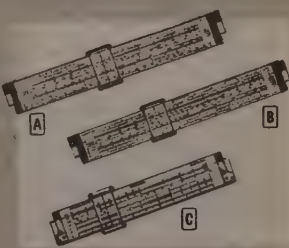
With Case



$\frac{1}{2}$ " DRIVE

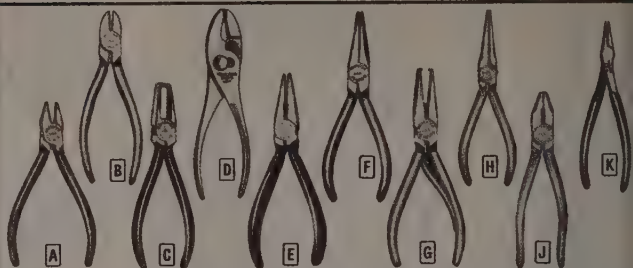
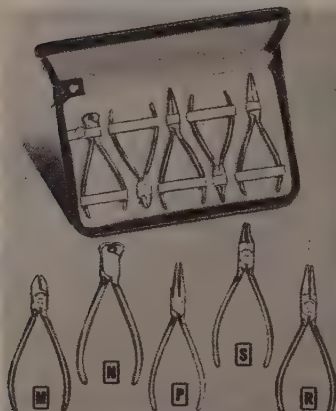
17 Pcs. \$19.50

With Case



kraeuter

Pliers, Cutters and Snips



ELECTRONIC CUTTERS AND PLIERS

Sturdily built Kraeuter cutters and pliers. All are forged steel; polished heads. All types listed in table below, "CG" prefix indicates vinyl cushion-grip; CCG—spring loaded vinyl cushion grip. Non-cutting pliers feature smooth jaws and radiused edges that will not nick or score wire. Av. wt., 1 lb.

JEWELERS' PLIER SET

\$14.70 • Cushion-Grip Handles
• Tooled Steel

TYPE CG90. Five popular tools (listed individually in table below) in a zipper fastened, leatherette case. 1 1/4 lbs.

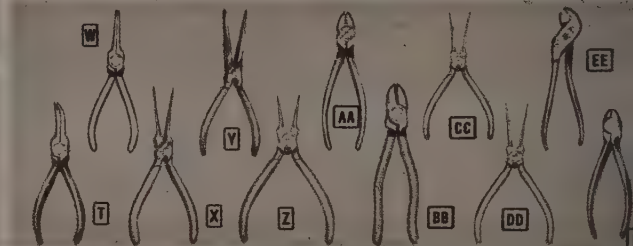
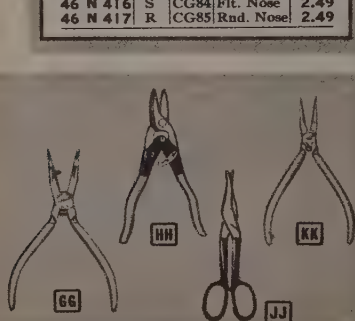
46 N 423..... EACH 14.70

4 1/2" JEWELERS' PLIERS

Fine precision pliers with resilient vinyl cushion grips—will not crack or peel. Type CG81 is for close cutting of small, soft wires. CG82 is for end cutting as in printed circuit assemblies. CG83, 84 and 85 have smooth jaws. Av. shpg. wt., 5 oz.

Stock No.	Fig.	Type	Descrip.	EA.
46 N 418	M	CG81	Diag. Cut	2.64
50 N 333	N	CG82	End Cut	3.12
46 N 415	P	CG83	Chn. Nose	2.49
46 N 416	S	CG84	Flt. Nose	2.49
46 N 417	R	CG85	Rnd. Nose	2.49

Stock No.	Fig.	Mfr's Type	Description	EA.
50 N 110	A	CGG4625	5" Needle-Point Diagonal Cutters with Spring	3.6
50 N 433	B	CG4501	4 1/2" Narrow Head Diagonal "Oblique" Cutters	2.3
46 N 402	B	CG4501	5" Narrow Head Diagonal "Oblique" Cutters	2.3
46 N 403	B	CG4501	6" Narrow Head Diagonal "Oblique" Cutters	2.9
46 N 414	B	CG2612	6 1/2" Wire-Stripping Diag. Cutters (with spring)	3.6
50 N 113	C	CG5627	5 1/2" Resistor Terminal End Cutting Pliers	3.6
49 N 023	D	056	6" "Hi-Brite" Combination Pliers	.7
49 N 024	D	056	8" "Hi-Brite" Combination Pliers	.9
49 N 025	D	156	10" Pliers as Above, but Heavy Chrome Plated	1.5
50 N 330	E	CG1641	5" Short-Chain Needle-Nose Pliers (with cutter)	2.6
46 N 401	E	CG1661	6" Long-Chain Needle-Nose Pliers (with cutter)	2.9
46 N 404	E	CG1671	6" Long-Chain Needle-Nose Pliers (no cutter)	2.2
50 N 331	E	CG1781	7" Long-Chain Needle-Nose Pliers (with cutter)	2.9
49 N 011	E	CG1771	7" Long-Chain Needle-Nose Pliers (no cutter)	2.6
49 N 060	F	CG1446	6" Needle-Nose Pliers—Radiused Edges, Smooth Jaws	3.2
50 N 112	G	CG1650	6" Long-Jaw End-Cutting Pliers (with spring)	3.6
46 N 413	H	CG1741	6" Long Flat-Nose Pliers (no cutter)	2.4
50 N 332	J	CG1801	6" Linemen's Side Cutting Pliers	3.3
46 N 408	J	CG1801	8 1/2" Linemen's Side Cutting Pliers	4.0
46 N 400	J	CG1830	6 1/2" Electrician's Side Cutting Pliers	2.5
50 N 111	K	CG71	8" Long-Reach Short-Jaw Nose Cutting Pliers	3.6
49 N 012	K	CG61	8" Long-Reach Short-Jaw Nose Pliers (no cutter)	3.0



ELECTRONIC CUTTERS AND PLIERS

Designed for precision wiring in hard-to-reach places. All are forged steel; vinyl cushion grip handles and full polished heads; CCG—spring loaded vinyl cushion grip. Av. shpg. wt., 1 lb.

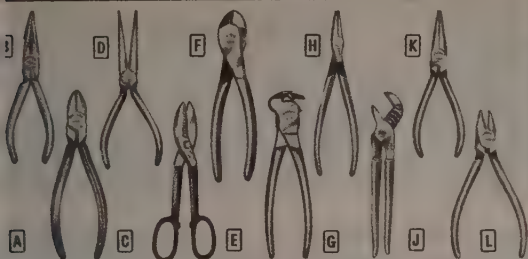
PLIERS AND SNIPS. Av. wt., 10 oz.

GG	CCG141	6" Flush-Cut Long Nose Pliers.	4.41
HH	CGS3	10" Straight-Cut Aviation Snips.	3.23
HH	50 N 334		3.23
HH	CG11	10" Left-Cut Aviation Snips.	3.23
HH	49 N 027		3.23
HH	CGR2	10" Right-Cut Aviation Snips.	3.23
HH	49 N 028		3.23
JJ	K-13	7" Straight-Cut Pattern Snips.	1.84
JJ	46 N 422		1.84
KK	CCG102	4 1/2" Smooth Jaw Pliers.	2.49
KK	49 N 064		2.49

Stock No.	Fig.	Type	Description	EA.
49 N 009	T	CG1631	5 1/2" Curved-Needle or Snipe-Nose Pliers (no cutter)	3.07
49 N 010	W	CG1621	6" Long-Needle or Snipe-Nose Pliers (no cutter)	2.61
49 N 013	X	CG1440	6" Long-Nose Electronic Pliers—1/2" Tip (with spring)	3.3
49 N 014	Y	CG1660	7" Extra Fine Long-Nose Electronic Pliers (with spring)	2.7
49 N 061	Z	CG121	5" Precision Slim Nose Pliers—Std. Serrated Tips	2.51
49 N 018	AA	CG4206	6" Hard Wire Diagonal Cutting Pliers	3.61
49 N 019	BB	CG4502	7" Diagonal Cutting Pliers—Full Fashioned Handles	3.3
49 N 062	CC	CCG144	6" Extra Slim Pinned Long Nose Pliers—Std. Serrated Tips	3.42
49 N 063	DD	CCG145	6" Pliers as Above, but Smooth Jaws and Radiused Edges	3.51
49 N 022	EE	CG643	5" Blue Temper Finish Ignition Pliers	1.41
49 N 036	FF	CG3601	6" Short-Nose Diagonal Cutting Pliers	3.3

Precision-Built Hand Tools

KNIGHT



T-QUALITY PLIERS, CUTTERS, NIPPERS AND SNIPS

• Rigid Factory Testing Assures Top Performance

One Year Guarantee

✓ Durable High-Grade Tool Steel

• Cushion grips except tin snips. Av. shpg. wt., 1 lb.

No.	Fig.	Description	EACH
131	A	6½" Side Cutting Pliers	2.03
132	B	6" Chain-Nose With Cutters	2.26
210	B	6" Chain-Nose Pliers	1.85
133	C	5" Diagonal Cutting Pliers	1.98
134	C	6" Diagonal Cutting Pliers	2.29
135	D	7" Chain-Nose With Cutters	2.72
038	E	8" Straight Cut Tin Snipe	1.64
029	F	7" Diagonal Cutting Pliers	2.29
067	G	6" End Cutting Nippers	2.59
030	G	7" End Cutting Nippers	2.74
066	G	8" End Cutting Nippers	3.33
031	H	8" Assembly Pliers	2.84
032	J	10" Tongue and Groove Joint Pliers (5 Adjustments)	2.18
065	J	6½" Slip-Joint Pliers (5 Adjustments)	1.82
033	J	14" Tongue and Groove Joint Pliers (5 Adjustments)	2.58
034	K	6" Cutting/Stripping Pliers	2.98
035	L	5" Needle-Point Diag. Cutter	2.82

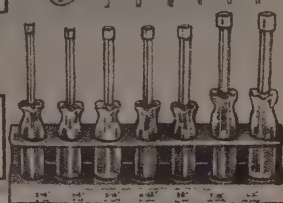


15-Pc. Kit

\$795

8-Pc. Kit

\$575



15-PC. NUT-SCREWDRIVER KIT

Roll pack holds: molded plastic handle; 6" extension; 7 nutdrivers— $\frac{3}{16}$ " to $\frac{1}{2}$ "; No. 1 and No. 2 Phillips, and $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " slotted screwdrivers. Nutdrivers have hollow shafts. Shpg. wt., 1½ lbs.

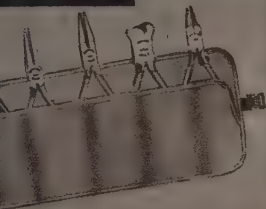
50 N 788.....**7.95**

8-PIECE NUTDRIVER KIT

7 nutdrivers: $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", and $\frac{1}{2}$ " in self-supporting rack. Molded, color-coded plastic handles. Nickel-chrome plated drivers. Hollow steel shafts are 6¾" long, except 6½" long, on $\frac{7}{16}$ " and $\frac{1}{2}$ " drivers. Shpg. wt., 1¾ lbs.

50 N 787.....**5.75**

KNIGHT

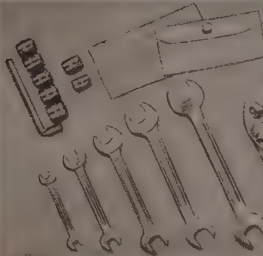


NEW JEWELERS' PLIERS KIT

\$12.39 • One Year Guarantee • Drop Forged Tool Steel

Roll pack contains 4½" diagonal cut-chain-nose, end-cutting, flat-nose, and nose, round jaw pliers. All have platin-chrome grips. Chain, flat and round-nose smooth jaws with no cutters. Chain round-nose taper to 5/32" point; flat nose, 1/8" Shpg. wt., 1¼ lbs.

68D.....**12.39**



NEW MODEL 6180 21-PC. GENERAL-PURPOSE HAND-TOOL KIT

\$839 • 21 Pieces With Pouch • Rolls Up To 11"x3"

A handy, efficient assortment of basic hand tools for countless electrical and mechanical jobs around the home and garage. Heavy-duty vinyl roll-up pouch contains: 9-piece ¼" hex drive socket set with pouch; a pouch for nuts, bolts and screws; 5 open end wrenches—¼"x½", ¾"x½", 1"x½", 1½"x½", 1¾"x½", and 2"x½"; 6" combination pliers; 6" Key-

All Purpose Kit in Vinyl Roll Pack

Fleet QUALITY TOOLS

• Features 9-Pc. Socket Set, 6 Wrenches, 2 Screwdrivers, 2 Pliers, 2 Pouches

stone screwdriver; 4" Phillips screwdriver; 6" adjustable wrench; and a 9½" pliers with five adjustments. Bright red, heavy-duty 22"x11" vinyl pouch rolls up to 11"x3" for easy storage. Opened kit has three sturdy grommets for convenient hanging on workshop wall. Shpg. wt., 4 lbs.

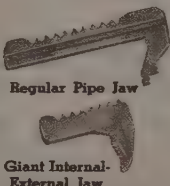
51 N 190D.....**8.39**

NEW GEARED PLIERENCH KIT

\$698 • Kit Features Two Interchangeable Jaws • Plastic Covered Handles for Firm Grip

the work of pliers, pipe, box, open end and socket sets. Parallel jaws and 10-1 gear ratio provide firm grip sides and edges. Comes with 2 interchangeable jaws: a pipe jaw for ¼"-1" pipes or bolts and nuts up to 1¼"; an internal fitting jaw for gripping inside of tubes, pipes fittings. With tool pouch. 10" long. 2 lbs.

91 D.....**6.98**



Regular Pipe Jaw

Giant Internal-External Jaw



Get the Most For Your Money with Knight Equipment

ALLIED 279

Famous Xcelite Screwdrivers and Nutdrivers



\$22.89

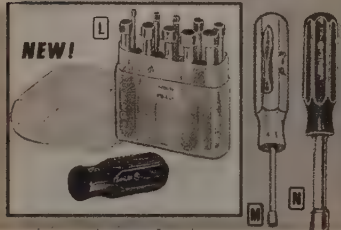
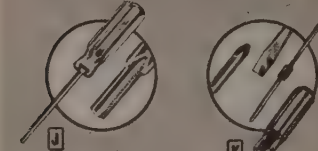
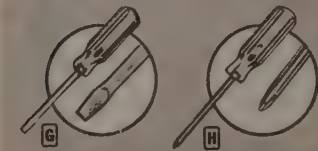
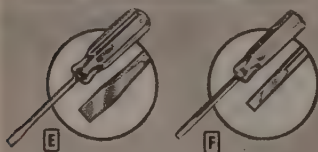
- 23-Piece Set
- Hundreds of Uses
- Handy Roll-Up Kit

MASTER TOOL KIT

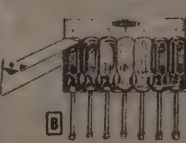
MODEL 99SM. A handy kit for the hobbyist, experimenter or serviceman. Set contains: long-nose pliers; diagonal pliers; 6" adjustable wrench; nine regular nut-drivers in sizes from $\frac{3}{16}$ " through $\frac{1}{2}$ "; $\frac{1}{4}$ " stubby nutdriver; $\frac{5}{16}$ " stubby nutdriver; $\frac{3}{8}$ " stubby nutdriver; $\frac{3}{16}$ " slotted screwdriver; $\frac{3}{32}$ " slotted screwdriver; No. 1 Phillips screwdriver; $\frac{1}{8}$ " to $\frac{3}{8}$ " reamer; $\frac{1}{4}$ " to $\frac{1}{2}$ " reamer; 8" extension; regular handle and stubby handle. Handy roll-up kit with individual pockets. Wt., 2 $\frac{3}{4}$ lbs.

43 N 884.....22.89

Professional quality. Handles are comfortable to grip—plastic



HEX NUTDRIVER SETS



A NUT AND SCREWDRIVER SET

MODEL 99PR. 13 pieces in plastic roll-up kit. 9 nutdrivers, $\frac{3}{16}$ " to $\frac{1}{2}$ " in $\frac{1}{32}$ " steps; 2 combination screwdrivers $\frac{3}{16}$ " and $\frac{9}{32}$ " std., Nos. 1 and 2 Phillips; plastic handle. Chrome-plated. 2 lbs.

45 N 738.....8.65

45 N 787. Model 99X10 8" Extension. For 99 series. Wt., 5 oz.....87c

B NUTDRIVER SET

MODEL 127. Sockets deep enough for two nuts. Depth of shaft hole, $1\frac{1}{4}$ ". Includes 7 nutdrivers. $\frac{3}{16}$ " to $\frac{3}{8}$ " in $\frac{1}{32}$ " steps. Zinc-chromate finished blades. Metal rack, $7\frac{1}{2}$ " x $1\frac{1}{4}$ " x $\frac{1}{4}$ ". Shpg. wt., 2 $\frac{1}{4}$ lbs.

45 N 735.....6.45

C HOLLOW-SHAFT NUTDRIVER

MODEL 147. 7 nutdrivers in commonly used sizes. All have hollow shafts. Sizes and colors: black, $\frac{3}{16}$ "; brown, $\frac{5}{32}$ "; red, $\frac{1}{8}$ "; orange, $\frac{9}{32}$ "; amber, $\frac{5}{16}$ "; green, $\frac{1}{2}$ " and blue, $\frac{3}{8}$ ". With self-supporting metal rack. Shpg. wt., 2 lbs.

47 N 092.....7.95

D NUTDRIVER SET

MODEL 137. 7 color-coded nutdrivers with self-supporting rack. Sizes and colors: black, $\frac{3}{16}$ "; red, $\frac{1}{4}$ "; amber, $\frac{5}{16}$ "; green, $\frac{1}{2}$ "; blue, $\frac{3}{8}$ "; red, $\frac{1}{2}$ "; and brown, $\frac{9}{16}$ ". Zinc-chromate finished blades. $\frac{1}{2}$ " and $\frac{9}{16}$ " nutdrivers have hollow shafts. 3 lbs.

45 N 734.....6.95

SCREWDRIVERS—CHROME VANADIUM STEEL SHAFTS

E ROUND-SHAFT SCREWDRIVERS.

Winged design prevents turning of blade in handle. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Shaft Size Dia.	Length	Overall Length	EA.
43 N 845	R-182	$\frac{1}{8}$ "	2"	4 $\frac{1}{2}$ "	33c
43 N 846	R-184	$\frac{1}{8}$ "	4"	6 $\frac{1}{2}$ "	39c
43 N 847	R-186	$\frac{1}{8}$ "	6"	8 $\frac{1}{2}$ "	42c
43 N 848	R-188	$\frac{1}{8}$ "	8"	10 $\frac{1}{2}$ "	54c
45 N 795	R-144	$\frac{1}{8}$ "	4"	8"	78c
45 N 796	R-146	$\frac{1}{8}$ "	6"	10"	84c
45 N 797	R-148	$\frac{1}{8}$ "	8"	12"	90c

F SET-SCREW TYPE SCREWDRIVERS.

Narrow-blades fit standard set-screw. Have pocket clips. Av. shpg. wt., 2 oz.

43 N 830	R-332SS	$\frac{3}{32}$ "	3"	5"	27c
43 N 831	R-18SS	$\frac{1}{8}$ "	4"	6"	39c

G SQUARE-SHAFT SCREWDRIVERS.

Available in a variety of lengths from $7\frac{3}{8}$ " to 18". Av. shpg. wt., 10 oz.

Stock No.	Mfr's Type	Shaft Size Dia.	Length	Overall Length	EA.
43 N 829	S-3164	$\frac{3}{16}$ "	4"	7 $\frac{3}{4}$ "	.69
43 N 832	S-144	$\frac{1}{4}$ "	4"	8"	.87
43 N 833	S-146	$\frac{1}{4}$ "	6"	10"	.93
43 N 834	S-148	$\frac{1}{4}$ "	8"	12"	.99
43 N 837	S-388	$\frac{3}{8}$ "	8"	12 $\frac{1}{4}$ "	1.38

H PHILLIPS SCREWDRIVERS.

Tip ranges from No. 0 to No. 3. *Stubby type. †With pocket clip. Av. wt., 6 oz.

Stock No.	Mfr's Type	Shaft Tip	Length	Overall Length	EA.
45 N 345	P-12S†	No. 0	2"	4"	33c
43 N 876	X-101	No. 1	3"	6 $\frac{1}{4}$ "	39c
43 N 877	X-108	No. 1	6"	10"	42c
43 N 878	X-102	No. 2	4"	7 $\frac{3}{4}$ "	54c
43 N 879	X-1020	No. 2	10"	13 $\frac{1}{4}$ "	1.18
43 N 881	X-103	No. 3	6"	10"	1.18
43 N 882	SX-101	No. 1	1 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "	1.38
43 N 883	SX-102	No. 2	1 $\frac{1}{2}$ "	3 $\frac{1}{4}$ "	1.38

J CLUTCH-HEAD SCREWDRIVERS.

Clutch-head screws used in electronic gear, etc. Av. shpg. wt., 3 oz.

50 N 144	G-183	$\frac{3}{16}$ "	4"	6 $\frac{1}{2}$ "	78c
50 N 145	G-5324	$\frac{3}{16}$ "	4"	7 $\frac{1}{2}$ "	84c
50 N 146	G-5164	$\frac{3}{16}$ "	4"	7 $\frac{1}{2}$ "	84c

K COMBINATION-BLADE SCREWDRIVERS.

Interchangeable standard and Phillips heads. With handle, 7". 5 oz.

Stock No.	Mfr's Type	Blade Combination	EA.
45 N 746	CR1	$\frac{3}{16}$ " Regular #1 Phillips	1.38
45 N 747	CR2	$\frac{1}{4}$ " Regular #2 Phillips	1.38
45 N 748	CR3	$\frac{3}{8}$ " Regular #3 Phillips	1.38

HEX NUTDRIVERS SPEED-UP YOUR WORK

M Color-coded nutdrivers for quick identification. Ideal for chassis work. Sizes range from $\frac{3}{32}$ " to $\frac{5}{8}$ ".

N Fig. M is pocket-style nutdriver. Fig. N has hollow shaft for tightening nuts on long screws. Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Fig.	Nut Size	Handle	Length	EACH
45 N 324	P-3	M	$\frac{3}{32}$ "	Blue	3 $\frac{1}{2}$ "	.48
45 N 325	P-4	M	$\frac{1}{8}$ "	Red	3 $\frac{1}{2}$ "	.48
45 N 326	P-5	M	$\frac{3}{16}$ "	Amber	3 $\frac{1}{2}$ "	.48
50 N 141	P-8	M	$\frac{1}{4}$ "	Red	3 $\frac{1}{2}$ "	.48
49 N 007	HS-6	N	$\frac{3}{16}$ "	Black	6"	.93
49 N 008	HS-7	N	$\frac{1}{2}$ "	Red	6"	.93
45 N 779	HS-8	N	$\frac{3}{4}$ "	Brown	6"	.93

Stock No.	Mfr's Type	Fig.	Nut Size	Handle	Length	EA.
47 N 093	HS-9	N	$\frac{5}{8}$ "	Orange	6 $\frac{1}{2}$ "	1.38
45 N 780	HS-10	N	$\frac{1}{2}$ "	Amber	6"	1.38
45 N 781	HS-11	N	$\frac{1}{2}$ "	Green	6"	1.38
45 N 782	HS-12	N	$\frac{3}{8}$ "	Blue	6"	1.38
45 N 783	HS-14	N	$\frac{3}{16}$ "	Brown	7"	1.38
45 N 784	HS-16	N	$\frac{1}{8}$ "	Red	7"	1.38
45 N 785	HS-20	N	$\frac{1}{4}$ "	Amber	7"	1.38

L PS120 "COMPACT" NUTDRIVER SET. 10 pocket-size nutdrivers, plus slip-on handle for more torque. When you need full driving power, just slip the standard handle over nutdriver handle. Sizes: $\frac{3}{32}$ "

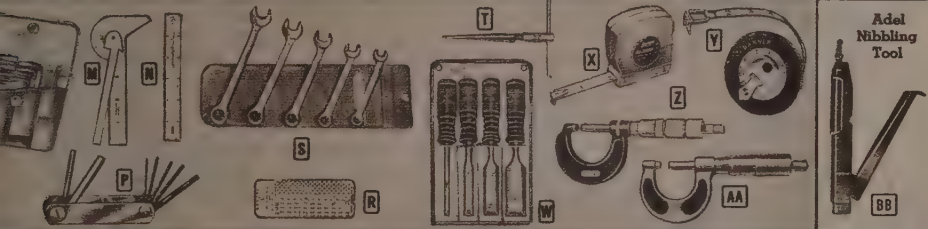
to $\frac{3}{8}$ " in $\frac{1}{32}$ " steps. Color coded. Nutdrivers are only $3\frac{1}{2}$ " long. Slip-on handle is 1x3 $\frac{1}{2}$ " long—fits into top of pocket-size plastic case. Shpg. wt., 11 oz.

51 N 194.....4.95

5.	3.10
6. Extra Point.....	44c

45 N 770.....2.14

46 N 308.....75¢
50 N 171. Extra Blades 2 oz. Pkg. of 5 37¢



1.34

50 N 182	C728*	8	7	1.60
50 N 183	C7210*	10	8	1.80

install. Shpg. wt., 2 oz.	
50 N 130.....	1.87

Time-Saving Workshop Tools

HENRY HANSON TAP AND DIE SETS

MODEL 614V 39-PC. DELUXE TAP AND DIE SET. 17 tap and die sizes. 1 each tap and die: 4-36, 6-32, 8-32, 10-24, 10-32 and 12-24 (Machine Screw Standard); 1/4-20, 5/16-18, 3/8-16, 7/16-14 and 1/2-13 NC (U.S. Standard); 1/4-28, 5/16-24, 3/8-24, 7/16-20 and 1/2-20 NF (S.A.E. Standard); 1/8" pipe. Includes die stock, tap and reamer wrench, "T" tap wrench, screwdriver, screw pitch gauge. In green plastic case. Shpg. wt., 4 lbs.
46 N 245. \$5 Monthly. **27.95**

MODEL S-20 SCREW EXTRACTOR SET. 4 extractors remove broken screws 5/16", 3/8", bolts, studs, 1/8" and 1/4" pipe. Has treated alloy steel. Hardwood box. 1 lb.
46 N 264. **2.00**

MODEL S-21 RADIO TAP-DIE SET. 1 plug tap and die: 6-32, 8-32, 10-24, 12-24. Solid dies, 1" dia. High-carbon steel. Tap-reamer. Mahogany box. 3 lbs.
46 N 025. **7.40**

FAST-CUTTING GREENLEE CHASSIS PUNCHES

A TYPE 733 "D" PUNCHES. For easy cutting of "D" shape openings in chassis, panels, etc. Makes clean cuts in up to 16-gauge metal. Use ordinary wrench. Requires 1/2"-starting hole. Wt. 2 lbs.
50 N 973. For 1/2" hole. **4.08**
50 N 974. For 3/8" hole. **4.30**

D BALL-BEARING DRIVE SCREWS. For easier operation of Type 730 punch below. Reduce friction. 1 lb.
47 N 018. AV322-BB. 1 1/16" to 7/8". **9.95**
47 N 019. AV112-BB. For 1" to 1 1/2". **5.00**
50 N 169. AV304-BB. For 2" punch. **12.00**

B TYPE 731 SQUARE PUNCHES. For square openings. Oblong or larger rectangular openings easily made by overlapping cuts. Swiftly cuts through up to 16-gauge metal. Takes ordinary wrench. Requires 1/2" hole. Shpg. wt., 2 lbs.
46 N 269. For 1/2" hole. **4.79**
46 N 276. For 3/8" hole. **4.90**
46 N 277. For 3/4" hole. **5.65**
46 N 278. For 1" hole. **6.80**

REPLACEMENT CAP SCREW. For Type 7 round hole punches below. 4 oz.

Stock No.	Size	For Punch Size	Each
46 N 182	1/4"	1/2" and 3/4"	29
46 N 183	3/8"	1/2" to 7/8"	29
46 N 168	3/8"	1" to 1 1/4"	34

C TYPE 732 "KEY" PUNCHES. Quickly cut holes for keyed sockets, other components. Use ordinary wrench. For up to 16-gauge metal. Require 1/2" hole, except 46 N 214 (1/4" hole). 1 1/2 lbs.
46 N 214. For 1/32" hole. **4.43**
46 N 184. For 1/16" hole. **4.50**
46 N 186. For 1/16" hole. **4.98**
46 N 189. For 1/16" hole. **5.40**

E TYPE 730 ROUND PUNCHES. For sockets, panel lights, etc. Cut through gauge metal, bakelite, hard rubber, etc. Operate with ordinary wrench. Av., 1 1/2 lbs.

Stock No.	Hole Size	Lead Size	Each
46 N 169	1/2"	1/4"	2.25
46 N 177	5/8"	1/4"	
46 N 000	1 1/16"	3/8"	
46 N 170	3/4"	3/8"	
46 N 171	7/8"	3/8"	
46 N 172	1"	3/4"	2.51
46 N 173	1 1/8"	3/4"	2.65
46 N 175	1 1/4"	3/4"	2.65
46 N 116	2"	3/4"	6.52

HEAVY-DUTY WIRE STRIPPERS and TUBE CUTTERS

F G-C 766K WIRE STRIPPER KIT. Includes: 766 "Speed-O-Matic" stripper; 7 different size blades for stripping any wire #8 to #30; blade guide. Very practical kit for the radio service man, electrician, mechanic. 2 1/4 lbs.
46 N 229. **11.73**

L K. MILLER 200' CABLE STRIPPER. Cuts axial cable stripper, cutter, and slitter. Made for long service. Adjustable blade preset for RG59/U cable. Tool steel blade. Shpg. wt., 8 oz.
50 N 339. **13.40**

G G-C 766 WIRE STRIPPER. Deluxe. Features fully-automatic delayed-return action to prevent crushing fine wires. Easy-grip handles, hardened steel blades. For #12 to #20 wires. Wt., 1 1/4 lbs.
46 N 225. **5.81**

M K. MILLER 101-S WIRE STRIPPER. Strips insulation or cuts wire up to #8, solid or stranded. Spring-lock holds blades closed when not in use. 5" long. Wt., 4 oz.
46 N 246. **1.10**

H G-C Model 766A Wire Stripper. As above, but for #14 to #30 wires. Wt., 1 1/4 lbs. **5.81**

K. MILLER MODEL 100 WIRE STRIPPER. Same as 101-S, but no spring-action to hold blades closed. 4 oz.
50 N 338. **8.00**

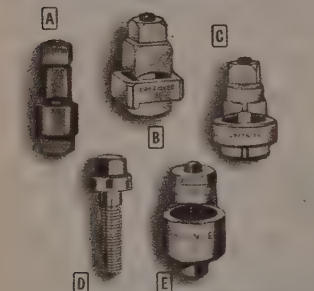
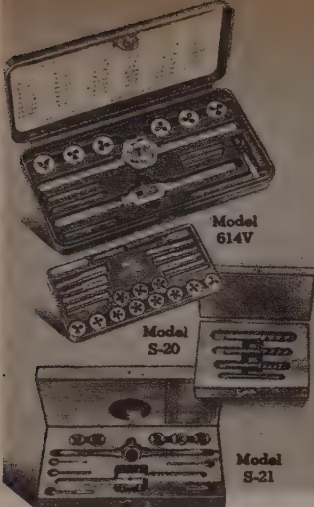
H FLARING TOOL. For all tubing. 3/16" through 5/8". Hardened and polished; cone rides on ball bearing. 3 lbs.
51 N 139. **2.65**

N UTICA SW-1 WIRE STRIPPER. Prevents wire nicking; strips teflon as well as most other solid and stranded wire. Calibration calibrated dial adjusts to all wire sizes from #12 to #26. Pistol-type construction is excellent for use in limited access areas; permits stripping at any point. Ideal for TV and radio chassis. Comfort-grip handles. 7 oz.
50 N 680. **14.95**

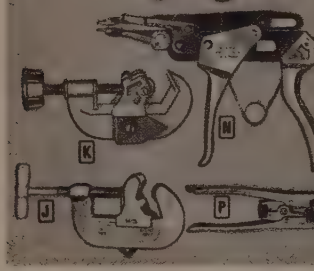
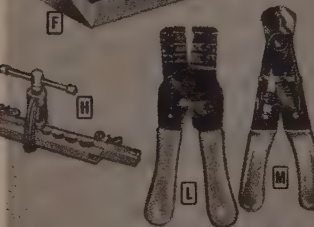
J TUBING/PIPE CUTTER. Cuts tubing to 2 1/2", std. pipe to 1". Alloy steel body, handle; chrome alloy blade. Retractable reamer. Shpg. wt., 2 lbs.
51 N 141. **3.75**

P G-C 802 WIRE STRIPPER. Automatic stop, return. Has wire cutter. For #12 to #22 wires. 8 oz.
50 N 341. **5.80**

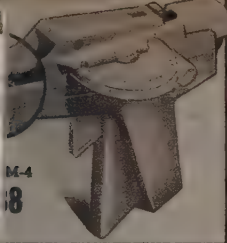
K 51 N 140. Tubing Cutter. Similar to above, but cuts 1/8" to 1 1/2" tubing only. 1/2 lb. **1.89**



GREENLEE



Labelmaker



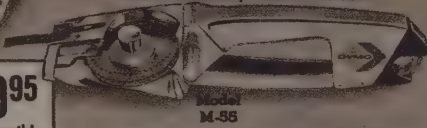
M-4
8

Model
M-22

\$39.95
\$5 monthly

\$19.95
\$5 monthly

Makes Permanent, Self-Sticking
Raised-Letter, Plastic Labels



Model
M-55

DYMO LABELMAKERS AND TAPEWRITERS FOR HOME, OFFICE, ON THE JOB

MODEL M-4 LABELMAKER. Just dialers, squeeze the handle, and impress—letter is made. Trigger cuts-off label, small tab at each end for removing rip. Rugged plastic, $6\frac{1}{2}$ " long. Less embo. 10 oz.
42D.....**6.88**

EMBOSSING TAPE. For M-4. $\frac{1}{4}$ " vinyl with embossed back. 6' long. 2 oz.

	Color	Type	Color
1	Clear	5204-7	Yellow
2	Red	5204-8	Brown
3	Orange	5204-9	Black
4	Green	5204-12	Gray
5	Blue	5204-13	Gold

143. Specify Color... **EACH 75¢**

MODEL M-22 TAPEWRITER. Heavy-duty precision tool for making $\frac{5}{32}$ " raised-letter labels on $\frac{1}{2}$ " vinyl tape. Improved design, straight cutoff. Chrome-plated aluminum alloy body; DuPont "Delrin" plastic embossing wheel. 10 $\frac{1}{2}$ " long. Less tape, below. Shpg. wt., 3 lbs.
50 N 849. **\$5 Monthly.....39.95**

EMBOSSING TAPE. For M-22. $\frac{1}{2}$ " adhesive vinyl pressure tape. 12' rolls. 5 oz.

Type	Color	Type	Color
158-1	Clear	158-6	Blue
158-2	Red	158-8	Brown
158-4	Orange	158-9	Black
158-5	Green	—	—

50 NN 903. Specify Color... **EACH 1.65**

MODEL M-55 TAPEWRITER. Economy version of M-22 at left. Expertly crafted—has many job and home applications. Uses disposable $\frac{3}{8}$ " tape magazines. $8\frac{1}{16}$ " long. Less tape, below. Wt., 1 lb.
51 N 148D. **\$5 Monthly.....19.95**

"THROW-AWAY" TAPE MAGAZINES. For M-55 Tapeprinter. Each magazine has 10' roll of $\frac{3}{8}$ " vinyl adhesive Weather-resistant tape. 4 oz.

Type	Color	Type	Color
5201-2	Red	5201-7	Yellow
5201-4	Orange	5201-8	Brown
5201-5	Green	5201-9	Black
5201-6	Blue	5201-13	Gold

50 NN 884. Specify Color... **EACH 1.25**

ARROW AUTOMATIC STAPLER GUNS WITH JAM-PROOF MECHANISM



T-50MP STAPLER KIT. New convenience for every stapling job. Kit includes: T-50 stapling gun; screen attachment; wire attachment; window shade attachment; staple lifter; 2000— $\frac{1}{4}$ " staples; 1000— $\frac{3}{8}$ " staples; 1000— $\frac{1}{2}$ " staples; 1000 Ceil-tile staples. T-50 general-purpose stapler is a heavy-duty gun that takes $\frac{1}{4}$ " to $\frac{3}{8}$ " staples. Double leverage action for powerful drive with minimum pressure. Non-jamming. Chrome-finished steel. Attachments make it one of the most versatile staplers you can buy. Shpg. wt., $5\frac{1}{2}$ lbs.
50 N 466.....**14.57**
46 N 292. T-50 Gun Alone. Loads 85—.050" staples. Shpg. wt., 2 lbs.....**10.41**

JT-21 JR. ECONOMY STAPLER. Excellent performance, low price. Ideal for light utility use. Features safety handle lock; built-in staple extractor; visual refill aid. Loads 100 staples. $3\frac{1}{2} \times \frac{5}{8} \times \frac{3}{4}$ ". Less staples, at right. 1 lb.
45 N 653.....**3.97**

T-25 WIRE STAPLER. For low-voltage wires up to $\frac{1}{4}$ " diameter. Ideal for bell, thermostat, telephone, and intercom wire. Chrome-finished steel. Tapered head gets into tight corners easily. Grooved blade positions wire for proper envelopment by staple. Round crown fits wire snugly. Loads 85 staples of .050" wire. $5\frac{1}{2} \times 7\frac{3}{4}$ ". Less staples, below. Shpg. wt., $2\frac{1}{4}$ lbs.
46 N 491.....**12.49**

STAPLES FOR ARROW GUNS. Av., 1 lb. Type T-50CT for ceiling tile.

Stock No.	For Model	Size	Lgth.	Quantity	Ea.
45 N 654	JT-21	$1\frac{1}{2}$ "	$\frac{1}{4}$ "	1000	.49
45 N 655	JT-21	$1\frac{1}{2}$ "	$\frac{3}{8}$ "	1000	.49
45 N 789	T-50	$\frac{3}{4}$ "	$\frac{3}{8}$ "	5000	2.20
45 N 792	T-50	$\frac{3}{4}$ "	$\frac{3}{8}$ "	5000	2.29
46 N 294	T-50CT	$\frac{3}{4}$ "	$\frac{3}{8}$ "	5000	3.20
45 N 791	T-25	$\frac{1}{4}$ "	$\frac{9}{16}$ "	5000	3.74

TON BENCH VISES—FOR WOOD, METAL, PIPE

THE QUALITY FEATURES

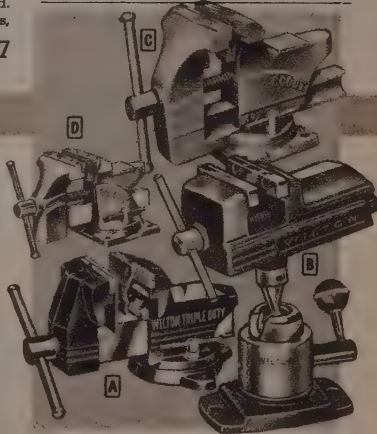
Super Steel Jaws with Heavy Serrations and Vibration-Proof Mounting
Rugged—Malleable Iron Castings with Nearly Twice the Strength
Permanent, Sealed-in Lubrication
Swivel Handles and Swivel Lock Bars

B MODEL 364 VISE AND POSITIONER. Excellent for small electronic assemblies or parts. Single-handed release of cadmium-plated steel PowArm positioner permits rotating or tilting work to any angle. Capacity, 15 lbs. Smooth steel jaws— $2\frac{1}{4}$ " wide; open to $2\frac{1}{4}$ ". 5 lbs.
50 N 149.....**13.93**

C MODEL C55. Low-cost $4\frac{1}{2}$ " jaw vise. Features removable steel insert jaws; built-in pipe jaws; locking swivel base. Anvil with forming horn. 19 lbs.
50 NX 489.....**7.30**

D MODEL C53 $\frac{1}{2}$. Same as C55 above, but with $3\frac{1}{2}$ " jaw width. 12 lbs.
50 N 487.....**5.30**

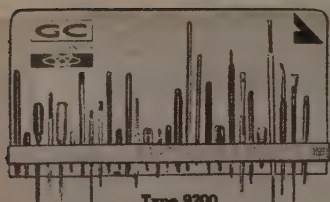
DEL 665. One vise that works three ways—woodworking, metalworking and pipe vise. Removable fiberboard jaw—clamp wood without marring. 5" wide jaws provide powerful grip for metal. Holds pipes of $\frac{1}{8}$ " to $2\frac{1}{2}$ " dia. 3 $\frac{1}{4}$ " deep. Max. jaw opening, 1 $\frac{1}{2}$ ". Swivel base. Wt., 35 lbs.
553.....**16.20**



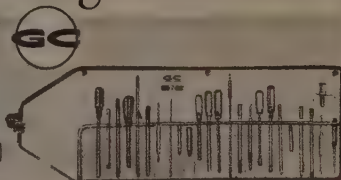
The Tools You Want Now—Use Your Allied Credit Fund

ALLIED 283

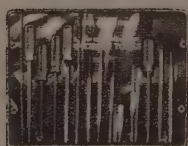
Time-Saving Tools and Accessories



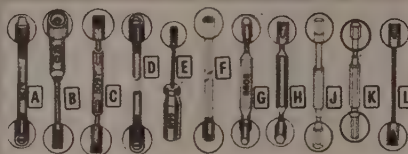
Type 9200



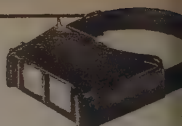
Type 8283



Type 8280



Magnify
Up To
3½ Times
As low as
\$695



Choice
Four
Lenses

"MAGNA-SIGHTER 3-D MAGNIFIER"
Lightweight binocular magnifiers let you
close work without eyestrain. Magnify
to 3½ times—in 3 dimensions. Have ground
and polished prismatic lenses. Adjustable
headband. Choice of 4 magnifications.
shpg. wt., 1 lb.

Stock No.	Distance	Magnifies	Price
51 N 174	14"	1½X	6
51 N 175	10"	2½X	6
51 N 176	8"	2½X	6
51 N 177	4"	3½X	6

DO THE JOB RIGHT WITH TV-RADIO ALIGNMENT TOOLS

TYPE 9200 PANEL KIT. Convenient, wall mounting kit of 27 most needed radio-TV alignment tools. Each tool has separate slot. Made of finest materials—low-loss plastics, tips of hardened spring steel, extra-hard bone fiber. Includes: various length alignment screwdrivers, special short tools, alignment wrenches, channel tuners, core aligners, oscillator adjustment tools, trimmer and IF aligners, solder probe, nylon replacement tip, hex tools, etc. 3-color steel panel for quick reach of immediately-needed tool. 2-hole mtg. Shpg. wt., 3 lbs.

42 NX 341.....16.95

TYPE 8283 MASTER DELUXE TV TOOL KIT. 25-piece alignment tool kit. None over 9" long. Includes: K-tran tool, core aligner, long-reach aligner, flexible wand, short tool, etc. In handy roll case. Shpg. wt., 1 lb.

42 N 005.....13.88

TYPE 8280 DELUXE TV ALIGNMENT TOOL KIT. Handy roll case of 16 specially engineered tools. Tips are hardened spring steel. Includes: "Shorty," duplex aligner, tuning wand, core aligner,

TV ALIGNMENT AND TUNING TOOLS

Stock No.	Type	Fig.	Description	Oz.
42 N 378	8276	A	Short duplex aligner	3
42 N 381	8275	B	Zenith universal aligner	3
42 N 383	5097	C	K-tran and IF aligner	3
42 N 393	8722	D	7" duplex #4 and #6 stud aligner	3
42 N 394	8195	E	Channel tuning tool	3
50 N 585	8278	F	Extra-thin TV tuning wand	3
42 N 377	8606	G	Zenith-Admiral nylon hex wrench	3
42 N 380	8282	H	Zenith wrench and aligner	3
42 N 379	9091	J	125" hex nylon wrench	3
42 N 346	9296	K	11" nylon hex (.075") wrench	4
42 N 388	8728-A	L	7" long bone-fiber screwdriver	3
42 N 389	8728	L	Above, but 12" long	3
42 N 390	8729	L	Above, but 16" long	3

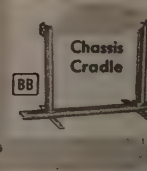
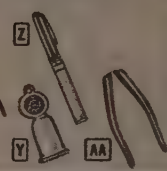
oscillator tool, long-reach aligner, special screwdrivers, Shpg. wt., 8 oz.

42 N 006.....8

SERVICING TOOLS FOR FASTER REPAIRS



Tool Caddy



M G-C 9525 TOOL CADDY. End tool clutter in the shop, lab, garage, etc. Caddy holds twelve tools of all sizes and shapes—from hammers to tweezers. Simple to mount and use. Tools are held by spring-locked brackets. Just snap in and out—tools are always held firmly in place. 10½" long. Wt., ¾ lb.

45 N 665.....1.57

N G-C 8943 TOOL HOLSTER. Perfect for do-it-yourselfers, servicemen, electricians, etc. Attaches to belt by two metal loops. Two narrow compartments, one full-sized compartment securely hold your most-needed tools. Made of tough, flexible polyethylene plastic that holds its shape well. Shpg. wt., 6 oz.

46 N 345.....2.43

P G-C 8872 C-RING TOOL. Removes, inserts "C" washers, etc. 2 oz.

45 N 661.....1.84

R G-C 5090 INSPECTION MIRROR. 8" long. 1" dia. 5 oz.

42 N 121.....41¢

S G-C 8725 ILLUMINATED INSPECTION MIRROR. 6" lucite rod; 1" hinged mirror. With bulb, less batteries (uses 2). 12½". Shpg. wt., 6 oz.

42 N 130.....1.97

55 J 870. "Z" Penlight Batteries. For above. Pkg. of 2. 6 oz. PER PKG. 20¢

T G-C 5089 PICK-UP TOOL. Press button to open claws—release to close. Flexible 14" shaft. 4 oz.

50 N 741.....96¢

W G-C 705 TROUBLE-LIGHT. With bulb, 5½" cord. For 115 v. AC-DC. 8 oz.

42 N 120.....1.32

X G-C 8092 TUBE PULLER. Scissors-type. Rubber tips. 12 oz.

46 N 092.....96¢

Y G-C 9130 TUBE GADGET. 3 tools. Straightens 7 or 9-pin min. tube pulls tubes. 3 oz.

42 N 016.....

Z G-C 8885 PRES-TO-OILER. Releases drop at a time. With oil. 3 oz.

46 N 065.....

XCELITE 42H "SEIZER". (Not illus.) Struts nose "third-hand". 3 oz.

45 N 666.....

45 N 667. 43H. Curved-nose.....

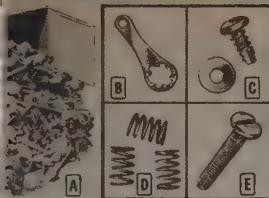
AA WALSCO 18-K PROTECTO-TUBING. High-voltage insulating tubing. Expands, shrinks with solution. 12-ft. of tubing expanding solution. 12 oz.

43 N 132.....

BB G-C CHASSIS CRADLE. Adjusts, rotates 360°. 24" long, 14" high, 1 lb. wide. Wt. 7 lbs.

52 NX 710.....

Useful Tools and Hardware



HOME SHOP

RDWARE ASSORTMENTS

RDWARE ASSORTMENT. Rivets, rubber grommets, nuts, screws, washers, etc. 1 1/4 lbs. **69¢**

DER LUGS. 1 1/2 lbs. **79¢**

ORTED SCREWS, NUTS, BOLTS. Assorted sizes. 1 1/2 lbs. **79¢**

ORTED SPRINGS. 1 1/2 lbs. **79¢**

CHINE-SCREW ASSORTMENT. 2-lb. —most popular sizes. 2 1/4 lbs. **59¢**

MODEL 500 NUT-CKING TOOL

Cracks nuts from 5/16" to 1/2" without damage bolts. Use; set chisel at angle to the flat of the grip firmly—then ratchet on forcing Up to 25,000 lbs. without damaging nut. 1 1/4 lbs. **5.95**



MOODY SMALL TOOL KITS

Six kits in plastic holders—each contains 5 tiny, precision-made tools for intricate work. To get all 30 tools, plus an extra carry-all simulated leather case, see right. Wt., each kit, 5 oz.

43 N 859. SC-5 Screwdriver and Awl Set. Screwdriver sizes: .005", .07", .08", and .1"; plus awl. **.99¢**

43 N 857. PA-5 Phillips Screwdriver and Allen Wrench Set. Phillips sizes: #0, #1; Allen sizes: #4, #6, #8. **1.64**

51 N 386. SW-5 Socket Wrench Set. Hex sizes: 3/64", 1/32", 1/16", 1/8", 3/16". **2.29**

43 N 804. OE-5 Offset Open-End Wrench Set. Sizes: 3/64", 1/32", 1/16", 1/8", 3/16". **1.64**

49 N 005. TS-5 Tap Set. Sizes: 0-80, 1-72, 2-56, 3-48, and 4-40. **3.20**

51 N 387. FR-5 Fishing Reel Repair Set. Includes: 1/4" and 3/8" hex wrenches; 1/10" and 3/32" screwdrivers; awl. **1.98**



30 Tools \$12.95 with case

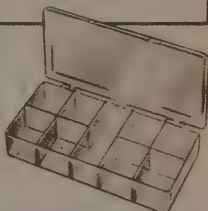
DELUXE SET OF SIX KITS

A remarkable array of small, precision tools for the serviceman or hobbyist. Consists of all six kits described at left. Each kit has its own chuck-type handle. With black, simulated-leather carrying case. Shpg. wt., 2 lbs.

51 N 282D..... 12.95

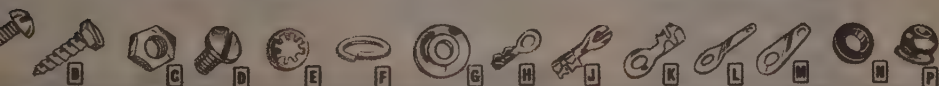
VLCHEK CLEAR-PLASTIC STORAGE BOXES

All-plastic hinged-top storage boxes with from 1 to 24 compartments. Ideal for all kinds of small parts, resistors, capacitors, fuses, hardware, etc. Lightweight, rigid, strong, scratch-resistant and easy to clean. Clear-plastic design lets you find what you're looking for quickly—without opening box. Type P250 has removable cover. *Indicates total number of compartments.



Stock No.	Type	*	Size of Compartments	Overall Size	Lbs.	2 FOR
51 N 375	P250	1	5 1/2" x 3 1/4"	6 1/4" x 1 1/4"	3/4	.76
51 N 376	P221	4	1 1/2" x 2 1/4"	4 3/4" x 3 1/4"	1 1/2	.44
51 N 377	P212	5	4—1 3/4" x 2 1/4"; 1—1 1/2" x 3 1/4"	7 3/4" x 1 1/4"	1	.74
51 N 378	P203	6	1 1/4" x 3 3/8"	8 1/4" x 1 1/2" x 1 3/8"	1 1/2	1.02
51 N 379	P210	9	8—1 1/4" x 1 1/8"; 1—1 1/2" x 3 1/4"	7 3/4" x 1 1/4"	1	.74
51 N 380	P201	12	6—1 1/4" x 1 1/4"; 4—1 1/2" x 2"; 2—1 1/4" x 3 1/4"	8 1/4" x 1 1/2" x 1 3/4"	1 1/2	1.02
51 N 381	P612	12	6—1 1/4" x 1 1/8"; 6—1 1/2" x 3/8"	11 1/2" x 1 1/4"	2	2.44
51 N 382	P200	18	1 1/4" x 1 1/4"	8 1/4" x 1 1/2" x 1 3/4"	3/4	1.02
51 N 383	P618	18	1 1/4" x 1 1/4"	11 1/2" x 1 1/4" x 1 3/4"	2 1/2	2.56
51 N 384	P818	18	12—2" x 2"; 6—2 1/4" x 3/8"	13 1/4" x 9 1/2" x 2 1/4"	3	3.90
51 N 385	P824	24	2" x 2"	13 1/4" x 9 1/2" x 2 1/4"	3 1/2	4.06

G-C ASSORTED HARDWARE FOR SERVICEMEN AND BUILDERS



UND-HEAD SCREWS. 3 oz.

	Stock No.	Quan.	PER BOX
1/4"	44 N 502	40	35¢
1/4"	44 N 503	35	
1/4"	44 N 505	40	
1/4"	44 N 506	30	
1/4"	44 N 508	30	
1/4"	44 N 548	20	

F-TAPPING SCREWS. 4 oz.

	Stock No.	Quan.	PER BOX
1/4"	44 N 564	35	35¢
1/4"	44 N 569	15	

X NUTS. 4 oz.

	Stock No.	Quan.	PER BOX
1/4"	44 N 584	30	35¢
1/4"	44 N 579	30	
1/4"	44 N 349	30	
1/4"	44 N 585	30	
1/4"	44 N 586	30	
1/4"	44 N 587	30	

D BINDING-HEAD SCREWS. Wt., 3 oz.

Size	Stock No.	Quan.	PER BOX
6-32x1 1/2"	51 N 371	25	35¢
8-32x1 1/2"	51 N 372	25	

E INTERNAL-STAR WASHERS. 3 oz.

	Stock No.	Quan.	PER BOX
1/4" screw	44 N 187	50	35¢
1/4" screw	44 N 597	50	
1/4" screw	44 N 598	50	
1/4" screw	44 N 599	45	

F SPLIT LOCK-WASHERS. 2 oz.

	Stock No.	Quan.	PER BOX
1/4" screw	44 N 197	60	35¢
1/4" screw	44 N 588	65	
1/4" screw	44 N 589	55	

G EXTRUDED FIBER-WASHERS. 3 oz.

	Stock No.	Quan.	PER BOX
No. 6	42 N 771	35	35¢
No. 8	42 N 773	35	
No. 10	42 N 775	35	
1/4"	42 N 777	35	

SOLDER LUGS. Accommodate screw nos. given below. Wt., 2 oz.

Size	Stock No.	Quan.	PER BOX
#8 Fig. H	44 N 603	25	35¢
#8 Fig. I	44 N 604	25	
#10 Fig. K	44 N 605	25	
#8 Fig. L	44 N 607	25	
#8 Fig. M	44 N 608	30	

N RUBBER GROMMETS. Sizes are mtg. hole, I.D. respectively. Wt., 2 oz.

	Stock No.	Quan.	PER BOX
1/4", 1/4"	44 N 618	16	35¢
3/8", 3/8"	44 N 619	14	
1/2", 1/2"	44 N 620	12	
5/8", 5/8"	44 N 621	10	

P RUBBER FEET. 3 oz.

	Stock No.	Quan.	PER BOX
3/4" O.D.	44 N 763	8	35¢
1" O.D.	44 N 764	8	

HARDWARE ASSORTMENTS IN HANDY PLASTIC BOXES

No.	Description	Quan.	Stock No.	Description	Quan.	Stock No.	Description	Quan.
01	#2 & 4 screws & nuts	35	43 N 667	Assorted rivets	55	43 N 338	Small dial-drive springs	10
55	Assd. sheet metal screws	25	43 N 668	Solder lugs—16-10	30	43 N 675	Radio knob springs	18
60	Assd. hex nuts	30	43 N 669	16-3 metal spacers	12	43 N 678	Rubber grommets, 1/4" I.D.	15
80	Extruded fibre washers	30	43 N 672	Cable clamps—1/4-3/4"	20	43 N 336	Standard dial cord	10 ft.
83	Assd. metal washers	80	43 N 674	Small compression springs	20	43 N 680	Assd. radio knob set-screws	15
65	Snap-hole plugs—1/4"-1 1/4"	8	43 N 337	Dial-drive springs	8			
0X		35¢	PER BOX		35¢	PER BOX		35¢

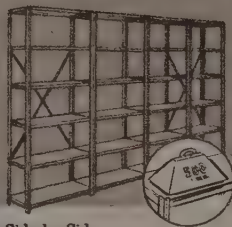
Selected Workshop Storage Equipment, Workbench



as low as
\$5.95

Use Singly
or in Rows

POPULAR EDSAL WORKSHOP EQUIPMENT



Units Can be Mounted Side-by-Side.
"Kwik-Klip" Shelves Hold Up to 500 Lbs.



\$15.95



Big
48x24"
Work
Area

"No-Mar" Table
Top Withstands
Rough Usage

- 8 Square-Foot Work Area
- Large, Reinforced Peg-board Tool Rack
- Holds 2 Storage Drawers

DELUXE HEAVY-DUTY STEEL STORAGE RACKS

Compact storage facilities. Units are complete and independent. Easy to assemble—bolt tops and bottoms; shelves held by "Kwik-Klip" fasteners. With 5 shelves; extra shelves, below. Posts punched for shelf adjustment. 75" high, 36" wide. Gray finish. Racks with "Z" in Stock No. shipped express only.

88 NZ 087. With 12" Deep Shelves. 47 lbs.	8.95
88 NZ 088. With 18" Deep Shelves. 60 lbs.	11.45
88 NX 085. 12" Extra Shelf. 6 lbs.	1.39
88 NX 086. 18" Extra Shelf. 8 lbs.	1.89

ECONOMY STEEL STORAGE RACKS. Low-cost shelf and rack units. Each has 5 shelves; 4-bolt construction. Hold 275 lbs per shelf. Racks with "Z" in Stock No. shipped express only.

50 NZ 801. Type 7230. Size, 73x30x12". 23 lbs.	5.95
50 NZ 802. Type 7218. Size, 73x36x18". 29 lbs.	8.45
50 NU 803. Extra 12x30" Shelf for 7230 Unit. 3 lbs.	1.10
50 NU 804. Extra 18x36" Shelf for 7218 Unit. 5 lbs.	1.60

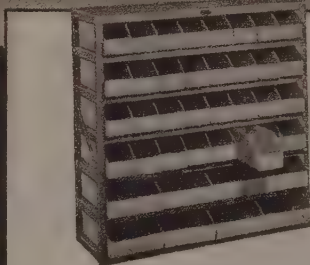
ALL-STEEL FRAME WORK BENCH

Sturdy all-steel frame hobby and work bench for the home workshop or industrial shop. Durably constructed to provide years of reliable service. Deluxe features include: large 48x15" reinforced pegboard tool rack—plenty of storage space for a complete tool assortment; big 48x24" table top of mar-resistant 1½" thick, high-impact compressed board that withstands even the roughest usage. Holds steel storage drawers, below. Gray oven-baked enameled parts are rust-resistant for long life. Less drawers, below. Can be knocked down—assembles in minutes. 34½" high. Shpg. wt. 15 lbs. Shipped express only.

50 NZ 523. 15.95

STEEL STORAGE DRAWER. For above. Gray enamel finish. 3x12x20". Shpg. wt., 15 lbs. Shipped express only.

50 NZ 524.



NEW! EDSAL 40-DRAWER PARTS CABINET

\$14.95

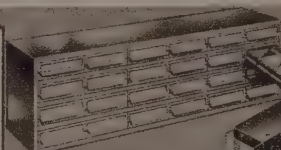
- 8-4½x8x11" Drawers
- 32-4½x4x11" Drawers
- Sturdy Steel Cabinet

Jumbo-size 40-drawer parts cabinet is ideal for use in the home and in industrial storage applications. Use it to hold loose tools, hardware, electronic components, etc.

Each unit consists of a heavy-duty steel cabinet with drawers of sturdy fluted corrugated board. Stop tab on each drawer prevents it from being pushed in too far or from being pulled out. Cabinet is 37" high, 36" wide and 12" deep. 32 drawers are each 4½" high, 4" wide and 11" deep; 8 drawers are each 4½" high, 8" wide, 11" deep.

Shipped knocked down, easy to assemble—parts lock into place. Shpg. wt., 37 lbs. Shipped express only.

51 NZ 145D. 14.95



Edsal Type 2418 24-Drawer Parts Cabinet

Dixie
Interlocking
Aluminum
Drawers



Vis-a-Part
Back

Selected Small Parts Storage Equipment

NEW EDSAL 24-DRAWER PARTS CABINET

TYPE 2418. Deluxe unit holds small tools, resistors, capacitors, lamps. Offers many storage possibilities in homes, shops, laboratories, schools, offices. Can be used individually or inserted into 36" wide shelving. Can also be placed under benches or stacked on each other. Sturdy drawers have built-in curved handle, full-width label holder, drawer stops and two removable dividers with label holders. Cabinet and drawers are constructed of heavy-gauge steel and finished in gray phosphatized baked enamel. Cabinet size, 10¾x33½x17¼". Drawer size, 15½x5½x17". Shpg. wt., 70 lbs. Shipped express only.

51 NZ 146D. \$5 Monthly. 32.95

TYPE 1818. As above, but with 18-2½x5½x17" drawers. Cabinet size, 10¾x33½x17¼". Shpg. wt., 60 lbs. Shipped express only.

51 NZ 147D. \$5 Monthly. 27.45

DIXIE INTERLOCKING ALUMINUM DRAWERS

Economical aluminum storage trays provide excellent storage for a wide variety of radio and TV small parts and hardware. Lock together on tops, bottoms, and sides. Drawer dividers (below) may be added to make storage compartments. Size, 2 2½x5", 10 oz.

52 N 911. EACH 4

DRAWER DIVIDERS. For Dixie drawers above. 4 cz. 3 per package.

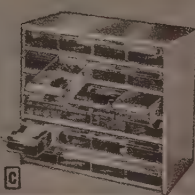
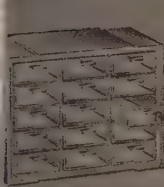
52 N 914. PER PACKAGE

VIS-A-PART STORAGE RACK. Ideal low-cost storage for screws, resistors, capacitors, any other small parts. Contents always visible. Jars (supplied) slide out easily, already open. Mason board has 4 mtg. holes.

Stock No.	Type	Size	Lbs.
52 NX 743	12-Jan	8½x18"	4½
52 NX 742	24-Jan	18x18"	9

Small Parts Cabinets and Tool Storage Chests

AKRO-MILS SMALL-PARTS CABINETS



HB-SERIES CABINETS

compact "Handy-Bin" plastic cabinets. thru, spillproof styrene plastic drawers $2\frac{3}{4} \times 3\frac{5}{8}$ ". Each drawer has one and index labels. Cabinet and drawers randomly styled in beige. All are deep, 6 $\frac{1}{4}$ " deep.

No.	Type	Drawers	Ht.	Lbs.	E.A.
915	9HB	9	5"	2	1.99
740	15HB	15	7 $\frac{1}{2}$ "	4	2.99
741	21HB	21	10 $\frac{1}{2}$ "	6	3.99

J-SERIES CABINETS

B Deluxe steel cabinets. Stand, stack or hang on wall. Clear plastic drawers, $1\frac{1}{16} \times 2\frac{3}{4} \times 5\frac{7}{8}$ ", separated into 3 sections by removable dividers. With labels. Gray hammertone. All 6" deep; 12 $\frac{1}{2}$ " wide except * 25 $\frac{1}{8}$ ". *Shipped express only.

Stock No.	Type	Dr'w's	Ht.	Lbs.	E.A.
52 NX 713	J-32	32	15 $\frac{1}{4}$ "	13	11.98
50 NX 902	J-48	48	22 $\frac{1}{2}$ "	20	18.98
88 NZ 080	J-128*	128	30 $\frac{1}{2}$ "	51	52.98

As Low As

\$279

"Handy-Bin"
Utility Cabinets

HBA CABINETS

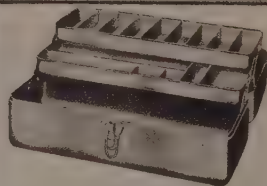
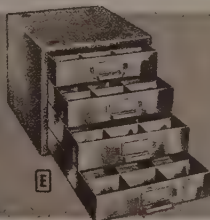
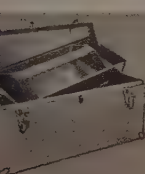
Rugged welded steel frame cabinets. Clear styrene plastic drawers are $2\frac{3}{4} \times 5\frac{3}{4} \times 1\frac{1}{4}$ "; have adjustable divider that locks tightly in place; safety tab that prevents accidental spilling. Stack neatly and securely, may be hung on the wall. Baked-on silver-gray hammertone finish. With labels and one divider per drawer. All are 6" deep. *Indicates Drawers.

Stock No.	Mfr's Type	"D	Size, HxW	Lbs.	E.A.
88 NX 081	12HBA	12	6 $\frac{1}{2} \times 10$ "	4	2.79
88 NX 082	18HBA	18	9 $\times 10$ "	5 $\frac{1}{2}$	3.84
88 NX 083	24HBA	24	9 $\times 13$ "	7	4.95

M4B-SERIES METAL SMALL-PARTS CABINETS

urdy metal parts storage cabinets in a size of 16, 24 or 40-drawer sizes. Feature $2\frac{1}{2} \times 11\frac{1}{2}$ " clear plastic drawers snap-in dividers and index labels. All are finished in gray enamel; 17 $\frac{1}{2}$ " deep.

Stock No.	Mfr's Type	Drawers	Ht.	Wt. Lbs.	EACH
52 NX 749	M4B16	16	11 $\frac{1}{2}$ "	18	17.98
52 NZ 750	M4B24	24	16 $\frac{1}{4}$ "	25	31.98
52 NZ 752	M4B40	40	27 $\frac{1}{4}$ "	47	52.98



UNION STEEL TOOL AND PARTS CHESTS

E 6119 "SUPER STEEL" CHEST. 3-compartment removable tray, 2 lts, padlock eye. Continuous hinge to cover and case. Steel carrying Blue enamel interior, silver-gray trontone exterior. $7\frac{1}{2} \times 9\frac{1}{2}$ " 8 lbs.

5.69

E 410 4-DRAWER PARTS CHEST. Steel drawers, $2\frac{1}{2} \times 11\frac{1}{2}$ ", have label cut, removable dividers for up to 12 tments per drawer. Silver finish. 10 $\frac{1}{2}$ lbs.

5.49

F TYPE 5414 "WATERTITE" CHEST. Ruggedly constructed tool chest featuring two cantilever-mounted trays and Union's famous watertight design. Extra-large tray capacity makes this unit ideal for orderly storage of tools and small parts. Push-button self-latching drawbolt ends accidental spilling. Upper tray has 7 compartments; lower tray contains one full length, one $\frac{1}{2}$ length and 2 smaller compartments. Easy-grip steel handle. Mar-resistant, handsome green-enamel finish. Size, $7\frac{1}{2} \times 14\frac{1}{2} \times 7\frac{1}{4}$ ". Shpg. wt., 5 lbs.

52 NX 712.....3.59

UNION STEEL DELUXE CHEST

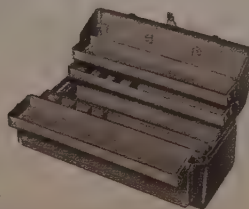
TYPE 5419. Rugged tool chest features big 19" length with 2 cantilever-mounted trays and famous Union watertight design. Offers one-piece, full-drawn, seamless leak-proof all-steel construction with rounded corners and returned edges. Machine-riveted hardware. Distinctive embossing adds strength without weight. Push-button self-latching drawbolt has padlock eye. Upper tray has 9 sections, 6 sections in lower tray. Comfort-grip steel handle has plastic finish. Virtually spillproof. Green enamel finish. $7\frac{1}{2} \times 19 \times 7\frac{1}{4}$ ". Shpg. wt. 7 lbs.

52 NX 739.....4.25

PARK MANUFACTURING 4-TRAY TOOL BOX

L 2180. Offers huge storage capacity. " length provides ample space for tools. Has two full trays, two partially filled trays with cantilever mounting. Constructed of heavy-gauge steel with electric-welded seams and integral full-length hinge. Two drawbolts plus padlock. Heavily plated hardware. Green enamel. $10\frac{1}{2} \times 21\frac{1}{2} \times 8\frac{1}{2}$ ". 13 $\frac{1}{2}$ lbs.

7.49



TAKE ADVANTAGE OF OUR CREDIT FUND PLAN

Don't put off getting tools and accessories you need now. Allied's Credit Fund Plan brings you anything you want for no money down—up to 24 months to pay. Open your account today. Details on page 433.



Selected Chemicals, Spray Paints

Complete Kit
for Quick,
Easy Plating

RAPID ELECTROPLATING KITS

The "Brushplater" is ideal for easy electroplating of small metal items such as hardware, trim, metal knobs, etc. Includes 1-oz. metal cleaner, 1-oz. metal polish, plating compound, $\frac{5}{8}$ " brush, wires and clips, and polishing stick. Requires two No. 6 1½-volt batteries. Shpg. wt., 1 lb.

Stock No.	Type	Compound	EACH
43 N 080	200	Nickel	1.67
43 N 081	202	Cadmium	
43 N 082	204	Copper	
43 N 083	205	Brass	
43 N 084	206	Silver	2.66
43 N 085	207	24 K Gold	4.61

DEVCON RUST REMOVER



Extremely effective rust remover with silicone. Quickly dissolves rust, cleans and polishes chrome, steel, brass and aluminum. Restores original brightness to auto bumpers, grillwork and chrome trim. Removes rust spots or yellow stains from porcelain in a jiffy. Cleans oxidation from aluminum storm windows. Cleans outdoor furniture, toys left out overnight, and brings welcome glow to tools. 4½-oz. tube. Shpg. wt., 6 oz.

51 N 268.....69¢



GC

\$585

Sampler Kit of
All G-C Cements

345 CEMENT SAMPLER KIT. Complete sampler kit of G-C cements for every application. Contains 14 2-oz. bottles. Includes these famous cements: Service, Plif-O-Bond, Acrylic, Plastic, Bakelite, Vinylite, Grille Cloth, Model, Wood, Rubber-to-Metal, Electrical and Resistor, Neoprene, Label and Vinyl. Wt., 2 lbs.

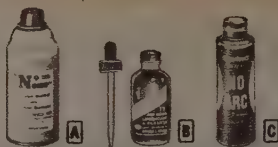
51 N 275.....5.85

30-2 RADIO-SPEAKER SERVICE CEMENT. For repairing and re-coning speakers. Fast-drying, waterproof and non-shrinking. For repair of torn cones, voice coils and spiders. Also cements plastic, metal wood, cloth, etc. With brush applicator. 2-oz. bottle. Shpg. wt., 6 oz.

43 N 456.....47¢

32-2 "BAKELITE" CEMENT. For bonding all thermosetting plastics such as bakelite, ureas, etc. Fine for broken cabinets, panels and knobs. An excellent adhesive for attaching labels or name plates. Dries in air. Supplied with brush applicator. 2-oz. bottle. Shpg. wt., 6 oz.

43 N 296.....68¢



A "NO NOISE" SOLUTION. Cleans, lubricates controls, switches. 6-oz. spray can or 2-oz. bottle with dropper. Shpg. wts.: can, 10 oz.; bottle, 4 oz.

43 N 142. Can.....2.20

43 N 143. Bottle.....98¢

B QUIETROLE CLEANER. Eliminates noises from controls, etc. Non-flammable. 2-oz. bottle with dropper. 4 oz.

43 N 102.....1.35

QUIETROLE SPRAY PACK. As above, but in 6-oz. spray can. Shpg. wt., 10 oz.

50 N 719.....2.73



KRYLON
PLASTIC
and ENAMEL
SPRAYS

CLEAR PLASTIC SPRAY. Sprays a crystal-clear acrylic that dries in minutes. Forms hard, waterproof coating of high dielectric strength. Eliminates corona and arcing. Dielectric strength: 400 volts per mil. 16-oz. spray can. Wt., 1½ lbs.

43 N 133.....1.27

JET-PAK
SPRAY
OUTFIT

\$198

Sprays up to 32 oz. of any liquid. Universal power-cartridge. Has head assembly, jar, 15-oz. power unit. 1½ lbs.

47 N 086.....

47 N 087. 15-oz. Refill. 1 lb.....

47 N 088. Extra 4-oz. Jar.....

C CHEMTRONICS SPRAYS

50 N 694. "No-Arc" Insulation. 20,000 break down 8-oz. spray can. 1 lb.....

51 N 270. "Tun-o-Lube" Tuner Cleaner. Lubricator. 8-oz. spray can. 1 lb.....

51 N 271. "Trol-Aid" Electrical Cleaner. 8-oz. spray can. 1 lb.....

ENAMEL SPRAYS. Highly attractive, fading enamel. Excellent quality for interior and exterior applications. In some, durable finish in a wide variety of colors. Takes only three minutes to full. Non-clogging spray valve. 16-oz. can. Wt., 1¼ lbs.

Stk. No.	Color	Stk. No.	Color
43 N 134	Brt. silver	43 N 053	Light gray
43 N 064	Brt. copper	43 N 108	Machinist
43 N 059	Flat white	45 N 207	Dove gray
43 N 137	Gloss white	43 N 109	Bright
45 N 206	Ant. ivory	43 N 043	Int'l orange
43 N 106	Flat black	43 N 383	Brass
43 N 138	Gloss black		

Above Sprays.....EACH

G-C CEMENTS, CHEMICALS AND CLEANERS



43-2 PLIF-O-BOND CEMENT. Tough, all-purpose cement that bonds practically any kind of surface with great adhesive force—permanently. Offers hundreds of applications in home or factory. With brush applicator. 2-oz. bottle. Wt., 6 oz.

43 N 210.....52¢

19-2 "DE-OX-ID" CLEANER. Powerful all-purpose contact cleaner. Not a solvent-type—has active ingredients in light oil base. Fine for volume controls, tune controls, audio mixers, relays, etc. Just a small drop lasts for several months. In 2-oz. bottle container. Shpg. wt., 6 oz.

43 N 128.....94¢

211-4 CARBON TETRACHLORIDE. Non-explosive, non-flammable. Cleans controls and contacts. Makes excellent household cleaner. 4-oz. bottle. Wt., 8 oz.

47 N 044.....52¢

65-16 CONTROL KLEENER. A dry cleaner for "washing" controls, switches, etc. 16-oz. bottle. Shpg. wt., 1¼ lbs.

43 N 046.....1.91

G-C "EPOX" CEMENT KIT

2-Tube
Kit

• For Strong-as-New
Repairs
• Fast, Easy to Use



346 EPOX-CEMENT KIT. Super-strong type adhesive that cures at room temperatures. Bonds materials usually considered impossible to cement. No shrinking. Cementing ceramics, metals and non-p materials. Resists effects of solvents, etc. 1½-oz. tubes. Wt., 4 oz.

50 N 574.....

37-2 "Q-DOPE." Specially prepared polystyrene for coating, doping, seaming and impregnating coils and components. Will not affect RF-circuit value. Welds polystyrene to polystyrene. More repellent. With brush applicator. 2-oz. tube. Wt., 6 oz.

43 N 472.....

1215 LIQUID NON-SLIP. For radio-TV cables and belts. Shrinks fibers; protects cable and belt life—prevents slipping. Lent on larger flat or V belts. 2-oz. bottle. Wt., 6 oz.

47 N 048.....

Adjustable Lamps for Home and Office

Reach
0° Sweep

Fluorescent,
Incandescent
Combined

\$1762 LUXO

Glare-Free U.L. Listed
Lamps (Spring-Controlled
for Flexibility) that
Cast Light Just Where
It's Needed

\$2195

UL

**Magnifier Lamp
With 5" Lens**

\$3330

LUXO

• Utilizes 2 Tubes
• Arms Extend 45°
• Easy to Position

\$2195

MODEL L-1A ALL-ANGLE LAMP. Work lamp, featuring precision construction and exceptional flexibility. Has two 45° extension arms with 360° sweep. Spring-loaded swivel joints; ed-nut tension control; vented porcelainized shade for rapid dissipation. On-off switch at top of shade. With clamp. Dove U.L. Listed. Less bulb; uses standard incandescent. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

17.62

MODEL LC-1A COMBINATION LAMP. Excellent 3-way lamp for people working with color. Combines incandescent and fluorescent light in one fixture. Either light can be used individually, together. Two extension arms reach 45°; sweep 360°. Clamp for on or desk. Gray finish. U.L. Listed. Uses 60-watt incandescent and Circline T9 fluorescent tube (not supplied). For 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.

21.95

U 229. \$5 Monthly.

MODEL LFM-1A MAGNIFIER LAMP. Deluxe unit combining large magnification, cool fluorescent light and excellent maneuverability in one versatile lamp. Large 5" lens gives big distortion-free view of subject. Spring-balanced action for easy positioning. Two extension arms; 360° sweep and 45° reach. With mounting clamp. Gray finish. U.L. Listed. Less tube; uses T9. For 110-120 v., 60 cycle AC. Shpg. wt., 8 lbs.

33.30

DELUXE MODEL FL-1A ALL-ANGLE FLUORESCENT LAMP. "Feather-touch" positioning—can be raised, lowered or turned with fingertip ease. Casts glare-free light. Spring-loaded extension arms remain in position. Adjustable housing. Shade, 19x4½". Push-button starter. With mounting clamp. Two extension arms reach 45°. Gray finish. U.L. Listed. Less tube; uses 2 T8's. For 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.

21.95

91 NX 201. \$5 Monthly.

Flexo

\$877

Two Lights

\$1095

Heavy Base

\$2150

Flexo

\$1540

• Spring-Controlled
• Head, Elbow Tilt

FLEXO ADJUSTABLE FLUORESCENT AND INCANDESCENT LAMPS

MODEL 5600 "COOL-SHADE" LAMP. Vented shade for cool ending. Swivels at base, shade, each joint. Spring-controlled. Shade, 42". Shade, 5½x7". Universal base for clamping or screwing. Less bulb; uses std. incandescent. U.L. Listed. For 120 v., 60 cycle AC. Wt., 3½ lbs.

8.77

MODEL 4444 "FLEXARM" TWIN-LIGHT. Two-light fluorescent lamp. Adjusts in height from 8" to 14". Heavy-gauge steel shade. 19x4½x18". Pushbutton on-off switch. Bronze finish. Rubber feet. Less tube; uses 2 T8's. U.L. Listed. For 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.

10.95

SWING-O-LITE ADJUSTABLE LAMPS

MODEL BBM-9 FLUORESCENT MAGNIFIER LAMP. Distortion-free magnification and cool fluorescent light. Large 5" lens with 13" focus. Arms extend 45°. Spring-controlled, counterbalanced. Gray finish. With clamp; less tube; uses Circline T9. U.L. Listed components. For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.

22.95

MODEL BB45C ALL-PURPOSE LAMP. Raises, lowers, turns at slightest pressure. Spring-controlled. Arms extend 45°. Vented shade. Gray. "C" clamp; less bulb; uses std. incandescent. U.L. Listed components. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

10.95

GOOSENECK CLAMP LAMP. Vented shade rotates on joint. Goose-neck describes 30° circle. Dove-gray. With "C" clamp; less bulb. U.L. and components. For 110-120 v., 60 cycle AC. 5 lbs.

5.95

MODEL 4324 PORTABLE DESK LAMP. Similar to Model 4303 below, but has weighted base instead of clamp. If you can't use a screw clamp, choose this lamp. Double arm extends 32". Pencil grooves in base. Bronze finish. Less tubes; uses 2 T8's. U.L. Listed. For 110-120 v., 60 cycle AC. Wt., 23 lbs.

21.50

MODEL 4303 ALL-PURPOSE FLUORESCENT LAMP. Head tilts vertically 180°; rotates 300°. Upper elbow tilts 160° vertically; lower, 110°. Extends 36". Spring-controlled swivel joints. Can be screw-mounted. Bronze finish. Less tubes; uses 2—T8's. U.L. Listed. For 110-120 v., 60 cycle AC. Wt., 10 lbs.

15.40

Swing-O-Lite

\$2295

\$1095

**Vented-Shade
Goose-neck Lamp**

\$595

Covers
2½-ft.
Area

• 45° Reach
• Spring-Loaded

See Following Page for Fluorescent Tubes

Fluorescent Fixtures, Lamps and Accessories



A MODEL 4022ME. 4-lamp fixture with removable polystyrene cubed diffuser. 45° crosswise and lengthwise visual cut-off, eliminating visual fatigue. Die-formed heavy-gauge steel frame. Surface or stem-mounted. In white baked enamel. 24x24" square. With diffuser. Less lamps; uses 4—T12, 20-watt, 24". U.L. Listed. For 110-120 v., 60 cycle AC. Wt., 36 lbs.
51 NU 250. \$5 Monthly..... **36.95**

C MODEL 764G. 2-lamp fixture with ribbed plastic diffuser and grounded convenience outlet. Chrome-plated. Has on-off switch. Mounts on wall—easily installed. 3 1/4x5x48". With diffuser. Less lamps; uses

B MODEL 2052ME. 2-lamp fixture with removable polystyrene cubed diffuser. Translucent texture eliminates fatigue from all viewing angles. All-steel frame. Mounts flush; can be suspended. High-reflecting white baked-enamel finish. Size, 12x48". With diffuser. Less lamps; uses 2—T12, 40-watt, 48". U.L. Listed For 110-120 v., 60 cycle AC. Wt., 24 lbs.
51 NU 251 \$5 Monthly..... **27.95**

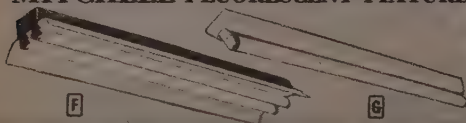
2—T12, 40-watt, 48". U.L. Listed. For 110-120 v., 60 cycle AC. Wt., 12 lbs.
51 NX 252..... **16.95**
51 NX 253 Model 762G As above; 24" long. Uses 2—T12, 20-W., 24" lamps. 7 lbs..... **12.95**



D DESK LAMP. Lustrous bakelite with flexible arm. Designed to beam maximum light to desired area. Weighted, lined base. 16" high. 6' cord. Less std. bulb. U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 1 3/4 lbs.
51 N 249. Black Shade; Silver Arm..... **2.60**
51 N 248. Red Shade; Gold Arm..... **2.60**

E LOW-COST PIN-UP WALL LAMP. Bright, break resistant plastic. Swivels into position. Key-slot mounting. 6' cord. Less std. bulb. For 110-120 v., 60 cycle AC. 1 1/4 lbs.
51 N 221. Chinese Red..... **1.75**
51 N 222. Black Base, Ivory Shade..... **1.75**

MITCHELL FLUORESCENT FIXTURES



F HIGH-INTENSITY FIXTURES
MODEL 9498. Uses two 75-watt, 96" lamps. Corrected power factor. Std. starters. White enamel. Has knock-outs. Less lamps, 96x13x5 1/2". U.L. Listed. For 110-125 v., 60 cycle AC. 35 lbs.
91 NU 187..... **18.99**

51 NX 373. Model 2099. Smaller version of above. Less lamps, uses two 40-watt, 48" T12 lamps. Wt., 17 lbs..... **9.43**
51 NX 374. Rapid-Start Model 2099RS. Same as Model 2099, but has rapid-type starters. Less lamps. Shpg. wt., 17 lbs..... **10.98**

G STRIP-LIGHT FIXTURES

Install on wall or ceiling. Finished in white, baked enamel. Normal power factor. Hold one lamp. With starters; less lamps. U.L. Listed. For 110-120 v., 60 cycle AC.



H CIRCLINE FIXTURES

MODEL 841C TWO-LAMP FIXTURE. Low cost chrome-plated fixture with "instant start" feature. Clear, glareless illumination—equivalent to light of 100-watt incandescent bulb. With 12" dia. 32-watt, and 8" dia. 22-watt lamps. Includes hardware and glass pendant. U.L. Listed. For 110-120 v., 60 cycle AC. 11 lbs.
91 NX 262..... **13.85**

91 NX 279. Model 665C Single-Lamp Fixture. As above, with 12" diameter lamp and glass pendant. Shpg. wt., 9 lbs..... **8.95**

Stock No.	Mfr's Type	Watts	Lgth.	Wt. Lbs.	EACH
91 NX 177	940-2	40	24"	4	2.76
91 NX 178	940-4	20	48"	4	4.59

STARTERS AND SOCKETS



J STARTERS

*Circline. †Circlarc. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Watts	PK OF
51 N 254	FS2	14, 15, 20	36
51 N 255	FS4	30 or 40	36
51 N 256	FS12	32*	43
51 N 257	FS22	14, 15, 18* 20-22†	43

K LAMPHOLDER SOCKET. 14, 15, 20, 30, 40 watts. Black. 2 per pkg.
51 N 258..... **PER PKG. OF 2 75**

L STARTER SOCKET. Dual-Loc remote starter socket. 2 per pkg.
51 N 259..... **PER PKG. OF 2 27**

M STARTER SOCKET/LAMPHOLDER. Combination Flex-Lock lampholder and Dual-Loc starter socket. 2 per pkg.
51 N 260..... **PER PKG. OF 2 99**

STANDARD AND CIRCLINE FLUORESCENT LAMPS

All lamps have medium-size bi-pin bases, except T5 (miniature bi-pin) and Circline lamps (4-pin bases). *Circline lamps; size in table is diameter of lamp circle. †Rapid-start lamps. T12 (40-watt) types are for regular or rapid start. ††For 762G fixture.

Stock No.	Type	Watts	Size	Tube Dia.	Color	Wt. Lbs.	EACH
52 N 920	T5	4	6"	5/8"	Cool-white	1/2	1.39
52 N 933	T5	6	9"	5/8"	White	1/2	1.39
52 N 939	T12	14	15"	1 1/2"	Cool-white	1	.95
52 N 922	T8	15	18"	1"	Daylight	1	1.05
52 N 931	T12	15	18"	1 1/2"	Cool-white	1	.95
51 NX 109	T12†	20	24"	1 1/2"	Cool-white	1 1/2	.95
51 NX 102	T12	20	24"	1 1/2"	Daylight	1 1/2	1.05
52 N 934	T9*	22	8 1/4"	1 1/4"	Cool-white	1 1/2	2.99
52 N 932	T10*	32	12"	1 1/4"	Cool-white	1 1/2	2.99
91 NX 536	T12‡	40	48"	1 1/2"	Cool-white	2	1.10
91 NX 504	T12‡	40	48"	1 1/2"	Daylight	2	1.17
91 NX 162	T12	75	96"	1 1/2"	Cool-white	3	2.40
91 NX 163	T12	75	96"	1 1/2"	Daylight	3	2.58

ADVANCE FLUORESCENT BALLASTS

High-quality ballasts for all popular fixtures. †55-65% corrected **90-100% corrected. U.L. Listed. For 105-125 volts, 60 cycle AC. *Lamp watts. ††For use with rapid start lamps.

†1-LAMP BALLAST—NORMAL POWER FACTOR

Stock No.	Type	Watts*	Size	Ctrs.	Lbs.	EACH
49 N 400	L-120F	15/20	4 1/4x2x1 3/8"	3/8"	1	1.81
49 N 401	L-140	40	6 1/4x1 3/8x1 3/8"	6"	1	1.81
49 N 402	L-10-14-20-C	14, 15, 20	3 1/4x1 3/8x1 1/4"	2 3/4"	3/4	2.61
49 N 408	RLC-140	32,40	6 1/2x2 3/8x1 1/4"	6"	3	2.61

†2-LAMP BALLAST/NORMAL POWER FACTOR

Stock No.	Type	Watts*	Size	Ctrs.	Lbs.	EACH
49 N 403	L-220F	20-20	6 1/4x2 1/8x1 1/4"	5 3/4"	1 1/2	2.03
49 N 404	R-22-32	22-32	6 1/2x2 3/8x1 1/4"	6"	3	3.61

**2-LAMP BALLAST/HIGH POWER FACTOR

Stock No.	Type	Watts*	Size	Ctrs.	Lbs.	EACH
49 N 405	S-240	40-40	11 3/4x2 3/8x1 1/4"	11 7/8"	4 1/2	5.13
49 N 406	RSHM-240	40-40	9 1/2x2 3/8x1 1/4"	8 1/8"	4 1/4	6.00
49 N 407	RQRM-2S40	40-40	9 1/2x2 3/8x1 1/4"	8 2/8"	4	5.01

Radio Remote Controls by *Perma-Power*



ELECTRONIC GARAGE-DOOR OPENER

Easy-to-Install All-Transistor Remote Control

\$49.50
\$8 monthly

- Automatically Controls Your Garage Door and Lights From Your Car
- With All Hardware and Instructions

Simply touch a button—your garage door opens and the light goes on. Press the button again or use the wall-mounted pushbutton, and the door closes and locks—then, after a few minutes, the light automatically goes out. Power shuts off automatically if door-travel is obstructed in any way. Door can be operated manually at any time. Choose from two all-transistor control units—a pocket/purse-size portable transmitter, or an under-dash transmitter with a dashboard button. Both operate on the FCC-authorized frequency of 27.255 MHz. However, no FCC license is required! Use this easy-to-install unit with any overhead, residential-type door up to 18-ft. wide and 8-ft. high, using either horizontal or curved roller track. Requires 2 1/4" clearance between high-arc of door and ceiling. Includes complete mechanism and receiver (for 110-120 v., 50-60 cycle AC), pushbutton (for 12 VDC), antennas, manual pushbutton, wire, hardware, easy instructions. Systems shipped express.

- RT400 SYSTEM.** With portable transmitter. 65 lbs. **\$49.50**
RT400D.....
RT400 SYSTEM. With under-dash transmitter. 65 lbs. **\$49.50**
RT400D.....
RT400S. Key Switch. For manual operation of door from outside (jamb, driveway post, etc.). With 2 keys. 9 oz. **\$4.20**

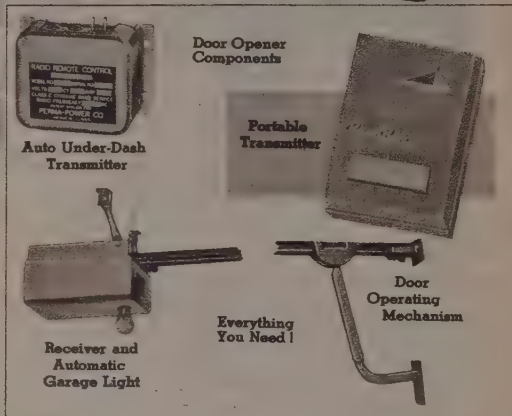
RADIO CONTROL SYSTEM COMPONENTS

Model RT400 Control System

\$99.50
\$5 monthly

- All the Necessary Components for a Wide Variety of Control Applications
- Up to 500-Ft. Outdoor Operating Range

Control practically anything from anywhere—ideally suited for lights, alarm systems, pumps and many other remote-controlling applications. RT-400 system consists of: an all-transistor receiver for operation from 110-120 v. AC; a pocket-size, self-contained portable transmitter; a wall-mounting pushbutton switch; and typical wiring diagrams; and complete installation instructions. Outdoor range is 500 feet; indoor range, at least 50 feet, up to several hundred feet, depending on structure of building and presence of metal obstructions. Maximum operating distance can be reduced by making a simple adjustment. Receiver is in a metal case, designed for permanent installation. Has two loading relays for maximum flexibility—one momentary-type, used during signal reception; and one sequence-type, which maintains its position until a second signal is received. Shpg. **\$99.50**
RT333D.....



PORTABLE TRANSMITTER UNITS

- 89 SX 018.** G-340 Extra Transmitter. Has built-in antenna and clip for mounting on auto sun visor. Wt., 1 lb. **\$19.50**
89 CZ 020D. G-663 Alternate-Frequency System. Like G-663 system at left; use where neighbor already has a door opener. Shipped express only. **\$49.50**
89 SX 021. G-340 Alternate-Frequency Extra Transmitter. Use with Alternate-Frequency System, above. **\$19.50**

UNDER-DASH TRANSMITTER UNITS

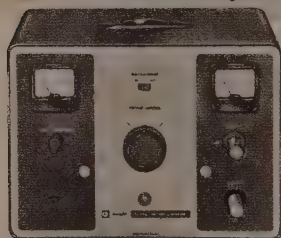
- 89 SX 022.** G-350 Extra Transmitter. With hardware, dash-mounting pushbutton, installation instructions. Wt., 3 lbs. **\$19.50**
89 CZ 023D. G-664 Alternate-Frequency System. Like G-664 system at left; use where neighbor already has a door opener. Shipped express only. **\$49.50**
89 SX 024. G-350 Alternate-Frequency Extra Transmitter. Use with Alternate-Frequency System, above. **\$19.50**



Limited Guarantees Your Satisfaction

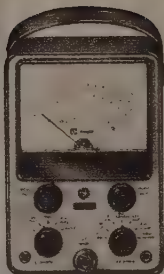
knight®

TEST EQUIPMENT



Rids You
of Need
for 6-
or 12-V
Battery

Voltage
Variable
0-8 and
0-15 v.



200-
Microamp
Movement

0-1.5 v.
Full Scale

1%
Multiplier
Resistors

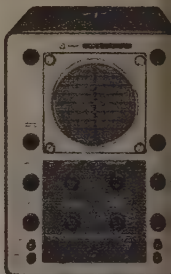
With Leads

Push-Pull
Amplifiers

1-Volt P-P
Calibrator

20 mv/inch
Sensitivity

With Leads



KG-660 BATTERY ELIMINATOR

Heavy-duty power supply—a ready, reliable source of 6- or 12-volt DC. 2 meters continuously monitor voltage and current. For servicing auto radios, mobile Ham and CB gear, transistor radios, etc. High current capacity permits overnight charging of 6- and 12-volt auto batteries.

Has variable output of 0-8 or 0-15 volts DC. Current ratings: continuous—15 amps at 6 volts, 7½ amps at 12 volts; intermittent—20 amps at 6 volts, 10 amps at 12 volts. Meters calibrated 0-15 volts and 0-20 amps DC. Fuse protected. 220 watts maximum. Size, 9x12x5". For 110-125 v., 60 cycle AC. Shpg. wt., 14 lbs.

83 YX 573-D. \$5 Monthly.....**44.95**

83 YX 912-D. In Kit Form.....35.95

FAMOUS MODEL KG-620 VTVM

The favorite of quality-conscious technicians! 4½" 2-color meter. Has direct-reading db scale, polarity reverse switch, zero-center scale, 11-meg input, and 30-cps to 5-mc response. DC and AC rms v., 0-1.5-5-15-50-150-500-1500. AC p-p v., 0-4.2-14-42-140-420-1400-4200. Ohms, 0-1K-10K-100K and 0-1-10-100-1000 megs. db, -10 to +65 in 7 ranges. With battery and leads. Size, 7½x5½x4¼". For 110-125 v., 60 cycle AC. Shpg. wt., 7 lbs.

83 Y 576-D. \$5 Monthly.....**39.95**

83 Y 911-D. In Kit Form.....24.95

83 Y 126-D. High-Voltage Probe Kit. Extends DC range to 50 kv. Wt., 1 lb.4.50

83 Y 127-D. High-Frequency Probe Kit. Extends AC range to 250 mc. 1 lb.3.50

KG-630 WIDEBAND 5" SCOPE

A 5" scope highly recommended for color TV work and other high-frequency use. 15-600,000-cps sweep range. Locks in frequencies up to 9 mc. Vertical response -+3 db, 5 cps to 5 mc, down only 1 db at 10 mc. 3.58-mc color-burst frequency. Has: frequency compensated input attenuator; axis input for intensity modulation; astigmatism control; deflection-plate coupling negative and positive sync; blanking circuit camera studs and more. With leads. 14½x10½x15½". For 110-125 v., 60 cycle AC. Shpg. wt., 32 lbs.

83 YU 577-D. \$6 Monthly.....**109.95**

83 YU 913-D. In Kit Form. \$5 Monthly. 74.95

83 Y 147-D. Low Cap. Probe Kit. ½ lb. 3.25

83 Y 148-D. Demod. Probe Kit. ½ lb. 3.25



MODEL KG-600B EMISSION-TYPE TUBE TESTERS

- Test Over 1800 Radio-TV, Hi-Fi Tubes • Portable and Bench Models
- Illuminated Roll Chart • Line-Adjust for Voltage Variations
- Provision for Future Tube Types • 16 Different Voltage Selections

PORTABLE. Checks cathode-emission of over 1800 compactrons, novistors, novars, 7-, 9-, and 10-pin miniatures, 4-, 5-, 6-, and 7-pin large types, octals, localts, and pilot lamps. Detects, opens shorts, gas, leakage. 16 filament voltages from 0.63 to 117. 3-color "GOOD?-REPLACE" meter. 6½x14½x10½". For 110-125 v., 50-60 cycle AC. Shpg. wt., 17 lbs.

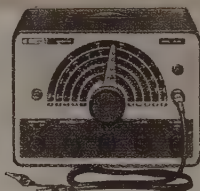
83 YX 578-D. \$5 Monthly.....53.95 83 YX 920-D. In Kit Form.....39.95

FOR BENCH OR COUNTER. Electrically identical to above testers. Heavy-duty black metal case. 5¼x14½x10½". 19 lbs.

83 YX 579-D. \$5 Monthly.....49.95 83 YX 951-D. In Kit Form.....35.95

MODEL KG-670 R-C CHECKER

- Bridge-Method Measuring
- Tests at Rated DC Voltage
- Measures up to 5 Megs
- Indicates Power Factor
- Includes Test Leads



MODEL KG-650 RF SIGNAL GENERATOR

- 160 kc-112 mc on Fundamentals—Usable to 224 mc
- 3 Outputs: Modulated, Unmodulated, 400-cps Audio
- Includes Test Leads



An invaluable aid for lab, production line, or shop. Measures resistance and capacitance by the accurate bridge method. Checks for opens and shorts in all capacitors; indicates power factor of electrolytics. "Magic eye" shows nulls at a glance. Reads capacity from 10 mmf to 1000 mfd; resistance from 100 ohms to 5 megs. Tests for leakage under actual working voltages of capacitors, from 50 to 450 WVDC. Accuracy, ±10%. With leads. 7¼x10½x5¼". For 110-125 v., 60 cycle AC. Shpg. wt., 10 lbs.

83 Y 580-D. \$5 Monthly.....**29.95**

83 Y 901-D. In Kit Form.....21.95

A real trouble-shooter, this low-cost generator features a Colpitts oscillator for accurate alignment of RF and IF stages in radio, TV sets. Output can be unmodulated (also jack for external modulation), or modulated by 400-cps built-in oscillator. 400 cps sine wave at 10 volts externally available. Provides fundamental RF output 0.4 volt or more, in 5 bands, from 160 kc to 112 mc. Excellent as marker generator. With leads. Size, 7¼x10½x5¼". For 110-125 v., 60 cycle AC. Shpg. wt., 9 lbs.

83 Y 574-D. \$5 Monthly.....**32.95**

83 Y 953-D. In Kit Form.....22.95

Our Best Value in Ready-to-Use Test Equipment

KG-2000 DC TO 5-MC 5" SCOPE

\$295⁰⁰ • Vertical Frequency Response from DC to 5 mc
• 85 Nsec Rise Time • Triggered Sweep
• DC-Coupled Vertical, Horizontal Amplifiers

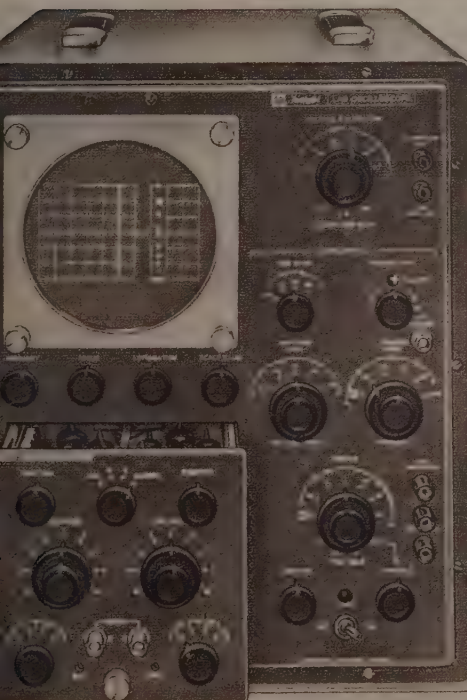
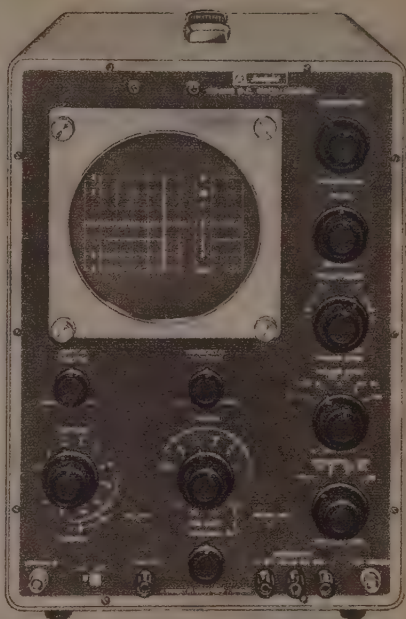
Consider the many features—and the moderate price! Precision-built for demanding lab work. Equally suitable for the classroom—easy to operate. Triggered sweep. Preset signal lock-in may be used to lock-in any portion of signal. Vertical off-scale indicators. External input for horizontal amp. Illuminated graticule. Intensity, focus, astigmatism, positioning adjustments.

Vertical Bandwidth on DC: DC to 5 mc, 3 db down. Ref. to 1 kc with display ht., 6 cm (.05 v/cm to 20 v/cm). **Vertical Bandwidth on AC:** 100 Hz AC preamp in .005, .01 and .02 v/cm ranges, 5 cps to 1.5 mc, 3 db down. Ref. to 1 kc with display ht., 6 cm. On ranges from .05 to 20 v/cm, AC response, 5 cps to 5 mc, 3 db down. **Rise Time:** 85 nsec, display ht., 6 cm or less. **Sensitivity:** DC coupled, .05 v. p-p/cm. AC coupled, .005 v. p-p/cm.

Horizontal Bandwidth: DC to 500 kc within 3 db. **Sensitivity:** approx. 5 v/cm. Has variable attenuator. **Sweep Range:** .05 sec/cm to 10 nsec/cm in 16 ranges by use of basic sweep ranges (10 msec, 100 μ sec, 10 μ sec, 1 μ sec) and horizontal sweep plus X5 expansion. 10:1 multiplier vernier control; multiplier switch. Provision for adding external capacitor for very slow sweeps. Sweep timing-accuracy within 3%.

Triggering: Sensitivity; 200 mv external, 1/2 cm deflection internal. Inputs; line, external and internal AC and DC. Level adjustable for triggering at selected points on waveform, or preset. 14 1/4 x 10 1/8 x 1 1/2". For 105-125 v., 50-60 cycle AC. 35 lbs.

YZ 575-D. \$15 Monthly. Shipped express..... **295.00**
YU 910-D. In Kit Form. \$10 Monthly..... **195.00**
Y 949-D. Low-Capacity Probe. Shpg. wt., 1 lb..... **20.00**



KG-636 DC TO 15-MC LABORATORY 5" SCOPE

Package \$795⁰⁰ • Dual-Trace Preamp—Also Takes Hi-Gain Preamp
• 30 Nsec Rise Time; DC-Coupled Trigger Sweep
• 1% Sweep-Time Accuracy; Push-Pull Amplifiers

New, improved version of our famous 10 mc labscope, now with extended frequency response for better-than-ever performance. Plug-in interchangeable vertical preamps equip this research-quality scope for exacting use in electronics, medicine, industry and education. For 1-mv sensitivity and cancellation of unwanted or interfering signals, use differential hi-gain preamp (optional, below). 5" CRT.

Trigger and up to X20-expansion amplifier circuits are DC-coupled for displaying very low frequencies or DC levels. Excellent for quantitative time and amplitude measurements. Regulated power supply; complete cooling system. Includes low-capacity probe.

WITH DUAL-TRACE PREAMP—Vertical Bandwidth: DC to 15 mc, 3 db down. Ref. to 50 kc with vertical ht., 6 cm. **Rise Time:** 30 nsec, vertical ht., 6 cm or less. **Sensitivity:** 50 mv/cm to 20 v/cm. **WITH DIFFERENTIAL PREAMP—Vertical Bandwidth:** DC to 100 kc. **Sensitivity:** 1 mv/cm to 50 v/cm. **Ratio:** 5000:1.

Horizontal Bandwidth: DC to 2.5 mc, 3 db down. **Sensitivity:** approx. .1 v/cm and 1 v/cm. 10 to 1 attenuator. Front-panel vernier gain control. **Calibrated Sweep Range:** 0.5 sec/cm to 50 nsec/cm in 30 ranges, by use of basic sweep ranges (100 msec, 10 msec, 1 msec, 100 μ sec, 10 μ sec, 1 μ sec) and horizontal amplifier gain (X1, X5, and X20); also horizontal sweep 10:1 multiplier vernier control. External capacitor input for very slow sweeps.

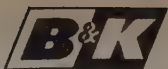
Time Marks: Intensity-modulated marks at 10 μ sec, 100 μ sec, 1000 μ sec in intervals—adjustable sweep accuracy to 1%. **Triggering:** Sensitivity; 100 mv external, 2 mm deflection internal. Inputs; line; external and internal AC, DC; preset. Level adjustable for triggering at selected points on waveform. 16 1/2 x 12 1/2 x 21 1/8". For 105-130 v., 60 cycle AC. Shipped express. 109 lbs.

83 YZ 572-D. \$30 Monthly. Scope, Dual-Trace, Probe..... **795.00**
83 YZ 584-D. Differential Preamp. Shipped express. 10 lb..... **100.00**
83 Y 949-D. Low-Capacity Probe. Shpg. wt., 1 lb..... **20.00**
83 YU 677-D. Mobile Transport Cart. Swivel-top locks in 2 positions. 36 1/4 to 28 1/2" high. Shpg. wt. 32 lbs..... **39.95**



445 CRT Tester

NEW!



Locates shorts, leakage, low emission—repairs or restores condition "on the spot" without CRT removal.

\$73⁴⁵

\$5 monthly

\$166⁵⁵

\$9 monthly



700 Tube Tester

NEW DELUXE 445 CRT TESTER-REJUVENATOR

Checks and repairs color or black-and-white CRT while still in set—pays for itself by the time it saves. Checks for leakage, shorts, "opens," and emission. Corrects shorts and leakage. Repairs open circuits and low emission. Restores emission and brightness. Life-test checks gas content and predicts remaining useful life of picture tube. Grid cut-off reading indicates picture quality you can expect. Tests and rejuvenates all picture tubes at correct filament voltage from 1 to 12 volts. Deluxe all-in-one unit gives new, useful life to weak or inoperative picture tubes.

Handles all Hi G₂ and Lo G₂ tubes including tubes that require a G₂ voltage as low as 30 volts. Supplies Hi G₂, Lo-1 G₂, and Lo-2 G₂ voltages. Tests and rejuvenates 110" tubes, 19" and 23" types, and color tubes including the new 90" 23" 23BG22. Checks and corrects each gun of color tube separately. Has 4½" plastic meter. Neon bulb indicators—quick readings at a glance. In luggage-type leatherette-covered case. Size, 14x8x4¾". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 11 lbs.

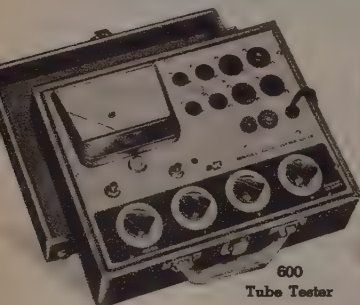
65 FX 286. \$5 Monthly..... **73.45**

MODEL 700 "DYNA-QUIK" TUBE TESTER

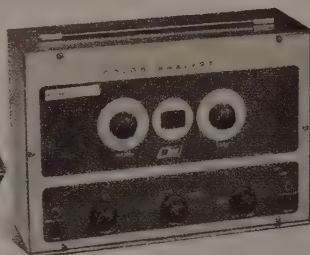
A professional dynamic mutual conductance tube tester for today and tomorrow. Virtually obsolescence-proof. Features multiple socket section—just plug tube in proper socket and check—plus simplified switching section for checking new tube types. In addition to testing radio and TV types, unit checks voltage regulated thyatrons, and radio hybrid types, European hi-fi tubes, and industrial types. Exclusive adjustable grid-emission test provides exceptional sensitivity to over 100 megohms. Phosphor-bronze socket contacts for long life.

Includes sockets for novistors, 10-pin tubes and 12-pin compactrons. Has provision for new sockets. Checks each section of multi-section tubes separately. Tests for all shorts, grid emission, leakage and grid emission test is adjustable, with sensitivity to over 100 megohms. Makes quick "life" test. Large 4½" plastic meter has easy-read "Replace-Good" scale. With complete reference chart cover. In leatherette-covered case, 16½x15¼x5¾". For 105-125 50-60 cycle AC. Shpg. wt., 16 lbs.

69 FX 660. \$9 Monthly..... **166.55**



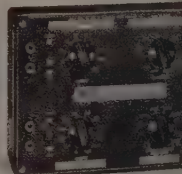
600
Tube Tester



850 Color TV Generator



1070
Circuit Analyzer



230
Substitution Box

MODEL 600 "DYNA-QUIK" TUBE TESTER

A low-cost, high-quality emission type tube tester. Extremely compact and lightweight—especially suitable for outside calls. Ideal for industrial applications; fast, accurate, and easy to use. Checks the latest, as well as old commonly used TV and radio tubes, plus novistors, 10-pin tubes, 12-pin compactrons, voltage regulators, thyatrons, auto radio hybrid tubes, European hi-fi types, and most industrial tubes. Determines tube capabilities under simulated load conditions.

Rejects only tubes that are definitely bad. Checks each section of multi-section tubes separately. Adjustable grid emission test, sensitive to over 100 megohms. Tests for shorts, leakage, gas. Phosphor-bronze contacts. In leatherette-covered case. 8½x11x4½". For 105-125 v., 50-60 cycle AC. 5¾ lbs.

69 FX 661. \$5 Monthly..... **73.45**

MODEL 1070 "DYNA-SWEEP" CIRCUIT ANALYZER

Expertly designed for trouble-shooting horizontal, vertical and sync problems in TV sets. Injects horizontal and vertical sync pulses, grid and plate drive signals directly into output transformers. Helps isolate trouble to defective part. Checks flyback transformer and yokes for shorted turns, leakage, opens continuity, etc. Also provides B+ boost indicator, high voltage indicator, and vertical yoke test signal. Size, 9½x7x5". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 8½ lbs.

69 FU 653. \$5 Monthly..... **73.45**

MODEL 850 COLOR TV GENERATOR

Simplifies color TV installation and servicing. Provides crystal-controlled sync system. Gives excellent line and dot stability for static and dynamic convergence and for linearity adjustments. General white dot, crosshatch, vertical lines, horizontal lines, burst pulse and individual colors. Tuned, switch-selected RF signals are available for channels 3, 4 and 5.

Exclusive gun-killer, with front panel control, makes it easy to disable any combination of 3 color guns. Sweep jack provides 15,750 cycle sawtooth signal for demodulator alignment. Video output jack level control for positive and negative polarity; power off-standby-switch. Deconverging assembly—no need for continued static convergence adjustments during set-up. 9x12½x8½". For 110-120 volt 60 cycle AC. 14½ lbs.

65 FX 012. \$10 Monthly..... **195.95**

NEW MODEL 230 SUBSTITUTION MASTER

Substitutes known value for questionable component. Each section isolated. Damage to box and healing of capacitor under test averted by surge protector. 24 carbon resistors: twelve 1-watt 10 to 5600 ohms; twelve ½-watt, 10 k to 5.6 megs. 20 wirewound power resistors: 20 watts, 2.5 to 15 k. 10 capacitors: 600 volts, 10 mfd to .5 mfd. Universal rectifiers: selenium, .5 amp, 800 PIV silicon, 5 amps, 800 PIV. 20 combination electrolytics, 450 VWD. With 4 test leads. 8½x6¼x3½". 2¾ lbs.

65 F 416. \$5 Monthly..... **44.00**



Model
1076

\$16
monthly
\$323³⁵

Point-to-Point
Signal Injection Technique



Model
1074

\$13
monthly
\$244⁹⁵

Point-to-Point
Signal Injection Technique

BLACK-AND-WHITE AND COLOR TV ANALYSTS

is your effective manpower! Point-to-point signal injection insures problem in half the time. You inject the signal—see the results directly on the TV screen. Complete signal control RF and with video and audio modulation; video; intermittent; audio—modulated 4.5-mc sound channel; sync—composite synchronizing signals adjustable in amplitude up to 50 volts; sweep circuit pulses—separate vertical and horizontal plate and grid signals to check complete output circuit and interrelated elements. All these signals save valuable time—difficulty is easily isolated in exact stage. Sensitive transformer test for V.O.,

H.O. transformers and yokes. Checks for shorted turns, leakage, opens, short-circuits, and continuity; detects defective windings. "Go-No-Go" high-voltage indicator lights reveal hard-to-find troubles in horizontal output transformer or high-voltage network. Both analysts generate patterns, burst, and crystal-controlled color signals adjustable in level. Switch-type tuner for fast, accurate channel selection. Bias supply—both positive and negative bias for sync, AGC and AFC troubles. High-level test signal—for modulating TV picture tubes directly. Checks all circuits; pinpoints trouble in minutes with easy, direct, point-to-point signal injection.

DELUXE MODEL 1076

ies RF and IF signals with "Flying Spot Scanner" test pattern and audio tone modulation. Checks bandwidth, resolution, etc. 400-cps generator. May be modulated from external source. Generates white dot, crosshatch, color-bar patterns, and low display for convergence adjustments, sync, hue control, demodulator alignment. AGC keying pulse. With test pattern, crosshatch, color bar, and blank slide transparencies. 10 1/4 x 10 1/2 x 10 1/2 in. For 110-120 v., 60 cycle AC. 29 lbs.

Model 1076. \$16 Monthly. **323.35**

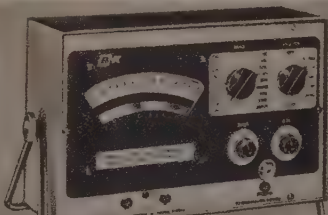
NEW MODEL 1074

Supplies RF and IF signals with any of four video patterns and tone audio modulation. Provides dot and crosshatch patterns, plus vertical and horizontal lines, and individual colors. Produces green, blue, blue-yellow, red-yellow, and red—one at a time by precision delay line. Audio carrier is modulated by 900-cps audio generator. Standard NTSC-type signal. Sweep jack offers 15,750-cycle signal for easy demodulator alignment. Size, 11x14 1/2 x 7 in. For 110-120 v., 50-60 cycle AC. 15 lbs.

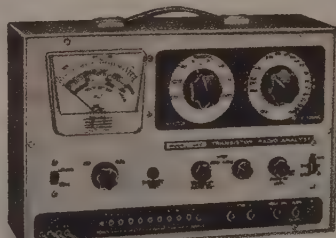
Model 1074. \$13 Monthly. **244.95**



Model 360



Model 375



Model 960

AUTOMATIC VOM AND VTVM

direct, error-free readings—no multiplying involved! Just set the range switch and the scale appears automatically. Individual, full-size scale for each range. Only one switch visible at any one time. Once you set range switch, you see only the scale and range wanted, and read the answer directly. Saves time, eliminates calculations.

MODEL 360 "V-O-MATIC" VOM

Full scale with knife-edge pointer for error-free readings. Burn-outproof meter movement. Sensitivity: 20,000 ohms/volt for 1000 ohms/volt AC. Ranges: AC and DC volts, 0.3-15-60-300-1000-6000; DC μ a, 0-50-100-500; DC amps, 0-10-100; AC amps, 0-100-1000; 0-1-100 mags. AF and VLF, 0.3-15-60-300 v. Response, 5-100 cps. Accuracies: 3% DC; 5% AC. Includes test leads for zero set. Polarity switch. Includes adjustable stand for test leads, and 18 extra overlay scales for audio power, db's, peak-to-peak volts, capacitance. Size, 6 1/4 x 8 3/8 x 1 1/4 in. Shipg. 1/2 lbs.

Model 360. \$5 Monthly. **58.75**

MODEL 375 DYNAMATIC VTVM

Deluxe VTVM has highly sensitive 100-micro-ampere movement. Mirrored scale and easy-to-see iridescent knife-edge pointer totally eliminate parallax so that all readings are precise. Multiplier resistors are accurate within 1% of rated resistance. Input resistance is 11 megohms on all DC ranges.

Ranges: DC-AC rms and AC peak-to-peak volts, 0.1-5-15-50-150-500-1500. DC ma, 0.5-50-500; resistance: 0.500-5000-50K-500K; 0.5-50-1000 megs. Accuracy, $\pm 3\%$ of full scale AC and DC. In sturdy metal case with combination swivel stand and handle. Includes battery and DC-AC ohms probe. Size, 6 3/4 x 10 3/4 x 4 in. For 110-120 volts, 50-60 cycle AC. Shipg. wt., 9 lbs.

Model 375. \$5 Monthly. **88.15**

MODEL 960 ALL-IN-ONE

TRANSISTOR RADIO ANALYST

Signal generator, power supply, milliammeter, VTVM, battery tester, ohmmeter, in-and-out-of-circuit transistor tester—all in this one unit! Injects RF, IF signals, and audio directly into all circuits stage-by-stage to isolate and pinpoint exact trouble within minutes.

Unique "Dyna-Trace" single-point probe needs only one contact to transistor, speeding in-circuit testing. Meter has "Good-Bad" scale for leakage and beta. Also determines whether transistor is NPN or PNP.

1-12 v. power supply, in 1 1/2 v. steps; has meter with 2 current ranges, 150 and 15 ma. Generator tunes from 250 kc to 2 mc in 2 bands. 2-range VTVM, 1.5 and 15 v. Ohmmeter reads to 1 meg, tests front-to-back ratio of diodes. Japanese-to-American transistor cross-reference chart. In metal case, 12 1/2 x 7 3/4 x 4 3/8 in. For 110-120 v., 50-60 cycle AC. Wt., 8 lbs.

Model 960. \$5 Monthly. **97.95**



Checks
Over
2000
Tube Types

TC114 TUBE TESTER

Famous "Mighty Mite" portable tube tester checks over 2000 different types—including foreign and 5-star types, auto radio tubes, nuvistors, compactrons, novars and 10-pin miniatures. Checks leakage and cathode emission; offers complete, automatic short tests between all elements. Checks rectifiers from 50-150 ma and power amplifier tubes from 15-35 ma; all other types are tested at their rated current.

Control-grid leakage sensitivity exceeds 100 megohms. Tests for gasiness where as little as $\frac{1}{2}$ μ a of grid current flows. Has socket for testing cathode ray tubes. Large, easy-to-read illuminated meter protected by current-limiting circuit—won't burn out even with shorted tube. Handy set-up chart in cover speeds set-up time. Steel carrying case: 10 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ ". For 110-120 v. 50-60 cycle AC. Wt. 9 lbs.

69 F 264. \$5 Monthly.....73.01



TR115



TR110

TR115 TRANSISTOR-DIODE CHECKER

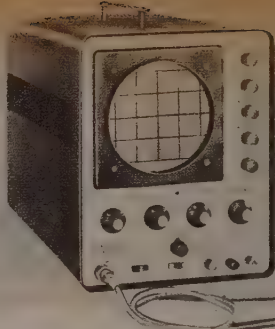
Low-cost, battery-powered unit checks transistors for opens, shorts and leakage. Reads current gain (beta) directly, or as good or bad. Checks diode F/B ratios; seleniums for forward, reverse current. Lists Japanese equivalents. Has set-up charts for critical tests, although checker can be used for most tests without them. Supplied with leads and batteries. Compact case with carrying handle is just 4 $\frac{1}{2}$ x 5 $\frac{1}{2}$ x 2 $\frac{1}{4}$ ". Shpg. wt., 2 lbs.

69 F 269. \$5 Monthly.....24.45

TR110 TRANSISTOR TESTER

Famous "Transi-Master" analyzes entire transistor circuit in minutes. Serves as signal tracer, voltmeter, battery tester and milliammeter. Tests transistors in circuit with AC gain check—also tests DC gain and leakage out-of-circuit. Reads current gain (beta) directly and tests diode F/B ratios. Has 0-12 v. scale for battery tests under load; 0-50 ma scale reads current drain, aids in alignment. Mirror in cover reflects opposite side of PC boards. With probe, leads, set-up chart and batteries. Size, 8 x 7 $\frac{3}{8}$ x 3". Shpg. wt., 6 lbs.

69 F 077. \$5 Monthly.....58.31



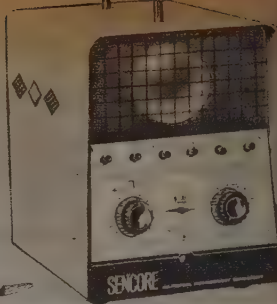
As easy to use as a voltmeter—
speeds radio-TV servicing

NEW PS127 5' OSCILLOSCOPE

New professional-type, wide-band 5' scope at a surprisingly low price. Portable and easy to operate, unit is excellent for TV-radio servicing in the field. Frequency response: vertical amplifier—flat within 1 db from 10 cps to 4.5 mc, -3 db at 5.2 mc; horizontal amplifier—flat within 3 db from 10 cps to approx. 1 mc. Deflection sensitivity for 1" height: vertical amplifier—.017 volts rms at vertical input cable or auxiliary vertical jack; horizontal amplifier—1 volt rms for 1" width.

Has 5 sweep ranges with 10% overlap: 5-50 cps, 50-5000 cps, 500 cps-5 kc, 5-50 kc, 50-500 kc. Sync to 4 mc. Input imp.: vertical, 2.7 megs with 99 mmf shunt; horizontal, 4 megs with 10 mmf shunt; 27 megs shunted by 9 mmf through built-in low capacity probe. Max. AC input: vertical, 500 v. p-p @ 1000 v. DC; horizontal, 15 v. p-p @ 600 v. DC. 9x12x15 $\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. 25 lbs.

69 FU 702. \$9 Monthly.....166.11

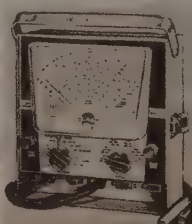


PS120 3' OSCILLOSCOPE

A truly portable, wide-band unit designed to handle any job, yet as easy to use as a voltmeter! Low-cost, extended-view scope has just 2 major controls. Ideal for color TV servicing. Frequency response: vertical amplifier—flat within $\frac{1}{2}$ db from 20 cps to 5.5 mc, usable to 12 mc; horizontal amplifier—flat within -3 db from 45 cps to 330 kc within -6 db from 20 cps to 500 kc. Sensitivity: .035 volts/inch rms; 0.1 volts/inch peak-to-peak.

All 4 horizontal sweep oscillator ranges continuously adjustable with approx. 10% overlap; ranges—15-150 cps, 150-1500 cps, 1500 cps-15 kc, 15-150 kc. Sync range, 1 cps to 8 mc; usable to 12 mc. Input impedance: vertical, 2.7 megs with 99 mmf shunt; horizontal, 330K to 4 megs. With low capacity probe. Has steel carrying hand, and concealed storage compartment. 9x11 $\frac{1}{4}$ ". For 105-125 v., 50-60 cycle AC @ 8 v. (10 w. standby). 15 lbs.

65 FU 063. \$7 Monthly.....122.00



SM112



VB2

FC123



HG104

SM112 COMBINED VTVM-VOM

Popular "Service Master" is 2 testers in one compact case. Features 1% precision resistors, single test prod, special scale indicators, 6" 200 μ a meter. AC-DC volts: 0-3-10-30-100-300-1000. P-P v.: 0-2800 in 6 ranges. Accuracy: DC, $\pm 3\%$; AC, $\pm 5\%$. Response (first 4 ranges): 30 cps-4.5 mc. Ohms: VTVM, 0-1000 megs in 6 ranges; VOM, 0-1 meg in 2 ranges. VTVM input imped., 10 megs; VOM sensitivity, 5000 ohms/v. Zero-center. 8 $\frac{1}{2}$ x 7 $\frac{3}{8}$ x 3 $\frac{1}{2}$ ". With battery. For 115 v. AC. 6 lbs.

69 F 265. \$5 Monthly.....78.35

FC123 TUBE CHECKER

Quickly checks series-string type tube filaments, voltages (100 to 600 v.), continuity of fuses, switches, coils, wiring, etc. 3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{4}$ ". With leads. For 110-120 v. AC or DC. 1 lb.

65 F 092.....3.87

VB2 "VIBRA-DAPTER"

Adapts any tube tester to quickly check 12 and 6-volt vibrators. Plugs in 6AX4/12AX4 or 6SN7/12SN7 sockets tube tester. Has sockets for 3 and 6-prong vibrators. Two lamps show vibrator condition. Sturdy steel case is 3 $\frac{3}{4}$ x 1 $\frac{3}{4}$ x 1 $\frac{3}{4}$ ". Shpg. wt., 5 oz.

69 F 245.....2.60

HG104 HARMONIC GENERATOR

Time-saving, battery-powered signal generator for easy signal-tracing transistor-radio circuits—finds defective stage in minutes! Also very effective for testing TV, hi-fi, radio and other audio circuits. Unit generates RF, IF and audio signals simultaneously. Traces signal from speaker to antenna—clear 100 cps note in speaker indicates good stage. Size, just 1 $\frac{3}{4}$ x 3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ ". With batteries. Shpg. wt., 1 lb.

69 F 076.....9.75



NEW



NEW



NEW

Meet Every Servicing Need

CR125 CRT TESTER

Checks and rejuvenates both color and black and white television picture tubes without adapters or chance of tube damage. Thorough checks for inter-element shorts, mode emission, control grid cutoff capacities, gas and life. Tests performed are standard, correlating directly with set-up data from RCA and GE manuals.

Special "automatic controlled rejuvenation" feature prevents accidental tube damage—timing circuit carefully controls rejuvenation time in welding open cathodes. Use of 1-filtered DC on all tests provides accurate check on control grid capabilities, highly important in color TV.

Six CRT sockets, including the two color tubes, are on one handy cable (supplied). Neon panel lamps clearly indicate intermittent time. Built-in storage compartment holds socket cable and line cord. Size, 8 1/2 x 4 1/2". For 110-120 volts, 60 cycle AC. Wt., 13 lbs.

FU 704. \$5 Monthly..... 67.18

CA122 COLOR ANALYZER

Portable circuit analyzer that produces color bars, white dots, crosshatch pattern, vertical bars, horizontal bars and shading bars—the six basic patterns required for converging and troubleshooting color TV sets. Other analyzing signals are also provided to assist in solving RF, IF, audio, video and sync problems in both color and black and white receivers.

Ten standard crystal-controlled keyed bars (RCA type) give all colors at specified NTSC phases. Special counting circuits create stabilized dots. Color gun interrupter permits fast purity and convergence checks without upsetting color controls.

Sync and video, ± 0 to 30 v. p-p, have separate p-p calibrated controls for quick video/sync checks. Also has crystal-controlled 4.5-mc and 900-cps audio signals, and illuminated pattern indicator that "locks in" with pattern selector. 10x14x8". For 110-120 v., 60 cycle AC. 18 lbs.

65 FU 268. \$10 Monthly..... 183.75

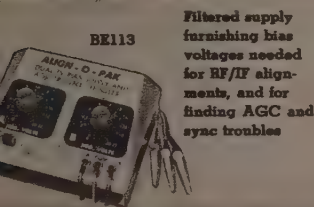
CG126 COLOR BAR GENERATOR

A top-quality standard color-bar generator at an extremely low price. Produces keyed color bars at NTSC phases, adjustable white dots, crosshatch pattern, and vertical or horizontal bars. All patterns are crystal controlled for excellent stability. Five-way selector permits rapid "dialing" of desired pattern from front panel.

White dots can be set to any size desired by an exclusive rear-panel screwdriver adjustment. Stabilized crosshatch pattern simplifies convergence. RF output is pretuned to ch. 4—other low channels can be selected by a simple slug adjustment.

Compact and portable to meet in-the-home color servicing requirements, unit produces 10 vertical and 14 horizontal thin white lines for dynamic convergence adjustments. Has reserved output of up to 200% on color bars for forcing signal through defective circuits. Size, 8x11x6". For 110-120 volts, 60 cycle AC. Wt., 13 lbs.

65 FU 282. \$5 Monthly..... 97.51

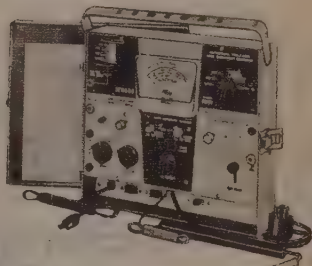


BE113

Filtered supply furnishing bias voltages needed for RF/IF alignments, and for finding AGC and sync troubles



RC121



BE113 "ALIGN-O-PAK" DUAL TV BIAS SUPPLY

in bias supply (for RCA and Admiral TV sets) provides all bias voltages for making RF or IF alignments, locating AGC and sync troubles. Output of each supply: 0-20 v. DC negative or positive, with less than 0.1% ripple. Transformer provides line isolation. Supplies may be used simultaneously without interaction. Size 2 1/2 x 4 x 4". With leads. For 110-120 volts, 50-60 cycle AC Shpg. wt., 4 lbs.

F 266..... 12.49

RC121 COMPONENT SUBSTITUTION UNIT

ers complete range of carbon resistors, capacitors, electrolytics and filters for on-the-spot substitution. Has switches to select: 12—1-watt resistors, 10 to 5600 ohms; 12—1/2-watt, 10K to 5.6 megs; 20—20-watt wirewound power resistors, 2.5 to 15,000 ohms; 10—600-WVDC capacitor, 100 mfm to 0.5 mfd; 10—450-WVDC dual-section, 2 to 250 mfd; aluminum and 1 silicon rectifier, each rated 500 ma @ 800 PIV. Built-in fuse protector. 6x7x3 1/2". With 4 test leads. Wt., 5 lbs.

F 072. \$5 Monthly..... 39.15

F 244. H36. Above less power resistors, rectifiers; has only one 40 mfd electrolytic. 2x 3x3 3/4". 2 lbs..... 12.49

69 F 075. ES102. Similar to H36 (left) with 10 electrolytics from 4 to 350 mfd, 2 to 450 WVDC. 2 1/4 x 4 3/4" sq. 2 lbs..... 15.63

Solves sweep, sync, and high-voltage problems fast!

SS117 TV SWEEP CIRCUIT ANALYZER

Versatile circuit analyzer solves any sweep, sync or high-voltage circuit problem in minutes. Makes all important checks of black and white and color TV sets from top of chassis without necessity of removal from cabinet. Pushbuttons simplify testing procedure. Universal horizontal and vertical oscillators in unit substitute for oscillators in TV set. Horizontal yoke check consists of substituting universal yoke in unit. Vertical yoke is tested by driving with test signal to produce full height trace on TV screen. Flyback check tests for power transfer to universal yoke. Only one yoke lead need be disconnected for tests. All checks are made under dynamic conditions with TV set on.

Roll chart provides all necessary data for setting controls and interpreting readings—average peak-to-peak driving voltages, cathode currents and grid/screen pin numbers are listed for all popular horizontal output tubes. Has mirror in detachable cover and two convenient AC outlets in storage compartment. Size, 9 1/4 x 10 1/4 x 3 1/2". Supplied with easy-to-follow instruction book. For 110-120 volts, 60 cycle AC. Wt., 10 lbs.

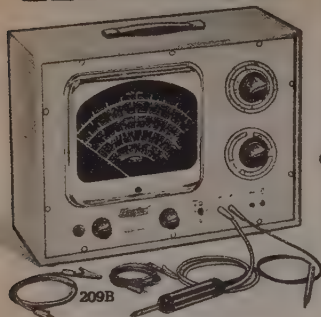
69 F 263. \$5 Monthly..... 87.71

Truck or Express Shipment Recommended For Test Equipment

ALLIED 297

Hickok

Test Equipment



MODEL 209B VOM

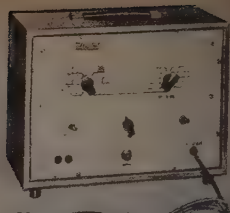
Super-deluxe VOM with provisions for measuring capacitance. 100-mv sensitivity. Stability: less than 1% change on all ranges with $\pm 10\%$ change in line voltage. Ranges: +DC, -DC and AC volts—0-0.1-0.3-1-3-10-30-100-300-1000; ohms (design center 10) X1, X10, X100, X1000, X10,000, X1 meg; capacitance (design centers 40 mfd and 10 mmf)—X10 mfd, X1 mfd, X0.1 mfd, X0.01 mfd, X0.001 mfd, X100 mmf, X10 mmf. Frequency response on AC volts, 10 cps to 100 kc, ± 1 db. Has DC zero-center set. Measures RF volts in ranges of 0-1-3-10-30 with RF probe (not supplied; see probe listings elsewhere in catalog). Transistorized, regulated B+ and heater supplies. Self-contained 0.1 VDC reference supply for ohmmeter measurements—safe for checking transistors. Accuracy, $\pm 3\%$ full scale. Metal case, $13\frac{1}{4} \times 16\frac{1}{4} \times 7$ ". With handy carrying handle. For 110-120 volts, 60 cycle AC. Shpg. wt., 29 lbs.
65 FU 119. \$12 Monthly..... 239.50



470A \$79.50



455A \$89.50



661 \$349.50

MODEL 470A PORTABLE VTVM

Versatile VTVM for engineer and serviceman. Has easy-to-read 2-scale, 7" meter. Permits transistor bias testing. Ranges: AC and DC volts, 0-0.5-1.5-5-15-50-150-500-1500; p-p AC volts, 0-1.4-4-14-40-140-400-1400-4000; resistance ranges (center scale=10): X1, X10, X100, X1000, X10K, X100K, X1 meg and X10 meg. Frequency response, 15 cps to 2.5 mc. DC input-resistance, 15 meg. AC resistance, 15 meg shunted by approximately 150 mmf. DC zero-center scale. $6\frac{1}{2} \times 7\frac{1}{2} \times 4\frac{1}{2}$ ". With single-unit AC-ohms-DC probe and lead. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 6 lbs.
65 F 118. \$5 Monthly..... 79.50

455A BURN-OUTPROOF VOM

Compact, portable VOM. Unique overload circuit cut-out and fuse system protect meter and circuitry against burnout on any function, including ohms. Has full-wave bridge-type rectifier circuit. Sensitivity 20,000 ohms-per-volt, AC and DC. Ranges: AC-DC volts, 0-3-15-60-150-600-1200; resistance, 0-1000-100,000 ohms; 0-1-100 megohms—5 ohms center scale; DC current, 0-50 μ a; 0-1-10-100-1000 ma; 0-10 amps; db, -18 to +57 in 5 ranges. Frequency compensated over entire audio range. $3\frac{1}{2} \times 5\frac{1}{2} \times 8\frac{1}{2}$ ". With test leads. Less batteries (requires 1 each of Burgess U 20 and Type 2). $5\frac{1}{2}$ lbs.
69 F 122. \$5 Monthly..... 89.50

NEW MODEL 661 "CHROM-ALIGNER" BAR/DOT GENERATOR

Produces 6 NTSC standard colors with sync, blanking and burst at the right pedestal position, with correct amplitude and phase. Also produces all standard demodulator signals (R-Y, B-Y, G-Y, G-Y/90°), plus white dots, vertical or horizontal bars, and cross-

hatch patterns for accurate convergence. Crystal controlled. Video output (0-2 v., p-p, open circuit), and RF output on channels 3 and 4. $14\frac{1}{2} \times 10\frac{1}{2} \times 7\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 48 lbs.
65 FU 284. \$17 Monthly..... 349.50



No Moving Parts
 UHF Harmonic Output
 Knife-edge Pointers

615

\$359.50



288AX

\$315.00



660

\$245.00

SWEEP-MARKER GENERATOR

Model 615 combination sweep and marker generator for visual alignment of TV receivers. Sweep frequencies: 0 to 50 mc, 50 to 100 mc, and 175 to 225 mc. Sweep-width variable from 0 to 15 mc. Marker frequencies: 2.5 to 5.5 mc, 19 to 50 mc, and 54 to 108 mc on fundamentals—108 to 216 mc on harmonics. Built-in 4.5-mc crystal provides dual markers for IF or RF alignment. 900-cycle internal modulator. Built-in retrace blanking panel-controlled for zero reference. External sweep variable phasing (170°) for use with scope without variable phasing. Unwanted amplitude modulation, less than 0.1 db/mc. Size, $13\frac{1}{4} \times 16\frac{1}{4} \times 8$ ". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 42 lbs.
65 FU 122. \$17 Monthly..... 359.50
65 F 123. Type 75 Termination Pad. Match from 75-90 ohms unbalanced, to 300 ohms balanced. Wt., 2 lbs..... 12.95

MODEL 288AX FM-AM SWEEP AND MARKER GENERATOR

Crystal-controlled, high-output FM-AM sweep and marker generator—a complete alignment instrument, providing signal voltages for servicing FM and AM as well as TV receivers. Features eight FM bands ranging from 35 kc to 160 mc, and eight AM bands ranging from 35 kc to 110 mc. Provides for internal or external amplitude or frequency modulation of RF output.

Built-in db meter: -10 to +38 db. AF output: 20 to 15,000 cps variable, or 400 cps fixed. Choice of 100-kc or 1000-kc crystal output. Vernier output control with decade steps of 1, 10 and 100. $13\frac{1}{2} \times 16\frac{1}{2} \times 7$ ". Complete with crystals and cable assembly. For 110-120 volts, 50-70 cycle AC. Shpg. wt., 38 lbs.
65 FU 120. \$16 Monthly..... 315.00

660 DOT-BAR GENERATOR

Compact, portable white dot-bar color display generator designed for "on-the-spot" adjustment of color TV receivers. Features a high order of stability, and is compatible with new design receivers. All frequencies generated are crystal-controlled and lock together for rigid stability to reduce chances of alignment error. Has an exceptionally stable timer circuit.

Features switch selection of RF output up to .05 v. on TV channels 2 to 6. 300 white dots, less than in blanking; 20 vertical and 15 horizontal white crosshatch lines, less than in blanking. Color display sequence, orange, red, magenta, blue, cyan, and green. RF modulated (60%) by all video outputs. Black letterette case. Size, $5\frac{1}{2} \times 10\frac{1}{2} \times 10\frac{1}{2}$ ". With 2 crystals and cable. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 21 lbs.
65 FU 121. \$13 Monthly..... 245.00

HICKOK



6000A

\$239⁵⁰

MODEL 6000A TUBE TESTER

Saving, quick-testing portable tube tester. Checks compactrons, novars, 5 and 10 pin miniature, and 7 and 9-pin minis. Provides "good-bad" quality test for N and PNP transistors, and forward con efficiency test on semiconductor diodes. Has large 5" meter.

Has Hickok-developed G_m circuit. Reads transconductance ranges (0-3000-6000-000 microhm) directly on 3-scale meter. Provides sensitive, instantaneous inter-element leakage and shorts tests (on 5 neon lamps), as well as a grid current check measured in microamps of grid current (when button is pressed). No tube elements to be paralleled. Immediate filament continuity test. Has replaceable socket plate for interelement protection. Constant indication of line voltage. Size, $7\frac{1}{2} \times 16\frac{3}{4} \times 11\frac{3}{4}$ ". With up-to-date roll chart with test data for more than 1000 tubes. For 105-125 volts, 50-cycle AC. Shpg. wt., 24 lbs.

FU 006. \$12 Monthly..... **239.50**



539C

\$485⁰⁰

MODEL 539C TUBE TESTER

Laboratory type portable tube tester with Hickok-developed transconductance test circuit. Measures G_m under simulated operating conditions. Has 6 microhm ranges: 60,000, 30,000, 15,000, 6000, 3000, and 600. Checks 4, 5, 6, 7-pin octal, local, 7 and 9-pin miniature; 7-pin in-line, and 8-pin round subminiature; and acorn tubes, as well as all compactrons, novistors, and 10-pin types. Tests VR tubes, low-power thyristors, and 4-digit types.

AC signal voltage: 0.25, 0.5, 1, and 2.5 rms. Filament voltage: 0-117 VAC in 20 steps. Plate voltage: 66 and 150 VDC. Screen voltage: 56 and 130 VDC. Fixed bias variable 0-40 VDC. Measures inter-element leakage to 50 megohms (indicated on meter or neon lamp). Has provision for plate and heater current measurements. 3 meters (1% accuracy): G_m , and VR voltage and leakage; line voltage; two-range bias. Size $7\frac{1}{2} \times 16\frac{3}{4} \times 18\frac{3}{4}$ ". With up-to-date roll chart. For 105-125 v., 50-400 cycle AC. 42 lbs.

65 FU 005. \$21 Monthly..... **485.00**



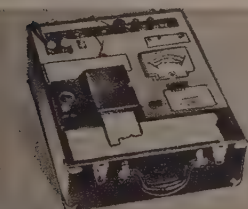
NEW!
\$199⁵⁰

677 5" WIDEBAND SCOPE

Highly sensitive, 5" wideband oscilloscope specifically developed to offer TV servicemen an excellent instrument at moderate cost. Excellent for color and black and white TV servicing, FM multiplex alignment, etc. Has 40 rms mv/inch vertical sensitivity. Illuminated, calibrated graticule and bright trace with full astigmatic correction, make it ideal for use in both waveform observation and peak-to-peak measurements.

Vertical amplifier's frequency response: ± 3 db, 5 cps to 4.5 mc. Pulse response: rise time, .08 microseconds, 3-step decade attenuator and vernier gain control. Input impedance, 3 megs shunted by 10 mmfd. Response of horizontal amplifier: ± 3 db, 5 cps to 350 kc. Sweep frequency: 10 cps to 500 kc. Built-in retrace blanking. Input impedance, 5 megs shunted by 30 mmfd. Choice of $\pm$ internal, external and line sync. Built-in peak-to-peak calibrator. $14 \times 9\frac{1}{2} \times 18\frac{1}{2}$ ". With leads. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 29 lbs.

65 FU 283. \$10 Monthly..... **199.50**



123A

\$585⁰⁰

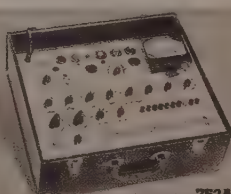
MODEL 123A "CARDAMATIC" TESTER

Tester using card programming to set tests for industrial and computer-type tubes, novistors, low-power thyristors and tubes. Tests 4, 5, 6, 7-pin, octal, local 7 and 9-pin miniature, 7-pin in-line, and octal miniature. Custom tube-tests can be programmed at any point on the characteristic curve to determine tube performance in special-purpose circuits. Makes "fringe," duration, and cut-off tests in addition to shorts and leakage tests. With 500 (100 more available) test and calibration cards. For 105-125 v., 50-60 cycle AC. Shpg. wt., 59 lbs. Shipped Express.

FZ 115. \$24 Monthly..... **585.00**

MODEL 121 TUBE TESTER. Economy version of above. Makes fast tube-manual tests up to 12 seconds on any tube. With 342 calibration cards. 44 lbs.

FU 647. \$17 Monthly..... **359.50**



752A

\$355⁰⁰

MODEL 752A TUBE TESTER

Portable transconductance tube tester featuring famous Hickok-developed G_m test circuit. Has simplified transconductance scale with multiplier ranges. G_m ranges: 0-1500-3000-6000-15,000-30,000 microamps. Tests 5 and 7-pin novistors, novars, compactrons, 10-pin types as well as 4, 5, 6, 7-pin octal, local, 7 and 9-pin miniature, 7-pin in-line and 8-pin round subminiatures, voltage regulator tubes and acorn tubes.

Dual-section tubes pushbutton-tested without set-up change. Cathode activity/life test. Illuminated meter. Bias and line fusing. Black leatherette case with test leads compartment and detachable lid. $7\frac{1}{2} \times 18\frac{3}{4} \times 16\frac{3}{4}$ ". With built-in illuminated roll chart containing current test data for more than 1200 tubes. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 32 lbs.

65 FU 116. \$17 Monthly..... **355.00**



800A

\$199⁵⁰

MODEL 800A TUBE TESTER

Lower-cost portable transconductance tube tester. Tests 4, 5, 7, 7-pin octal, local, 7 and 9-pin miniature tubes. Checks for inter-element leakage, filament continuity and grid current. Also tests transistors, diodes, novars, novistors, 10-pin miniature and compactrons ("good-bad"). 5" triple-scale meter has ranges of 0-3000-6000-15,000 microhm and "replace-7-good" scale. Roll chart groups most commonly used tubes separately. Red leatherette case with removable lid. $7\frac{1}{2} \times 16\frac{3}{4} \times 11\frac{3}{4}$ ". For 105-125 volts, 50-60 cycle AC. 24 lbs.

69 FU 648. \$10 Monthly..... **199.50**

65 F 114. CA-4. Adapter for testing compactrons, novars, 5 and 7-pin novistors, and 10-pin types. Use with any tester having an octal socket. Wt., 4 lbs..... **49.50**

84 F 184. CRT Adapter. For all current Hickok manual testers. 1 lb..... **15.75**

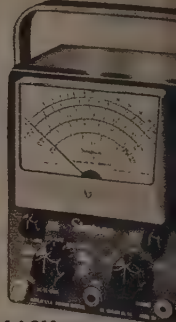
Express Shipment Recommended for Test Equipment



Model 260-4 With Plug-In Adapter



Model 269 7-Scale VOM



Model 311

VOM'S, VTVM'S, ACCESSORIES AND OSCILLOSCOPES

20,000 OHMS/V. DC 260 AND 270 VOM'S

260—SERIES 4. Its low cost and dependability have made it one of the world's most popular VOMs. 2-color scales, 5000 ohms/v. AC sensitivity, polarity reversing switch, full-wave bridge rectifier, response to 500,000 cps. Ranges: DC mv, 0-250; AC and DC v., 0-2.5-10-50-250-1000-5000; AF output v., 0-2.5-10-50-250; DC μ a, 0-50; DC ma, 0-1-10-100-500; DC amps, 0-10; res., 0-20 megs in 3 ranges; db, 20 to +50 in 4 ranges. 7x5 1/4x3 1/8". Batt., leads, 5 lbs.

69 F 199. \$5 Monthly. 48.95

69 F 200. MODEL 260RT. Above in roll-top case. Size, 9x6 3/8x4 3/4". Shpg. wt., 9 lbs. \$5 Monthly. 54.95

270. Deluxe version of the 260. Has all 260 features plus mirrored scale, knife-edge pointer, extra-high stability, 1 1/2% accuracy. 7x5 1/4x3 1/8". Batteries, leads, 5 lbs.

69 F 209. \$5 Monthly. 64.95

69 F 228. MODEL 270RT. Above in roll-top case. Size, 9x6 3/8x4 3/4". Shpg. wt., 9 lbs. \$5 Monthly. 70.95

ACCESSORIES FOR THE 260 AND 270

Stock No.	Type	Description	For Models	Lbs.	EACH
69 F 210	0508	HV probe; 25 KV range.	260-4 270	1/2	11.50
69 F 202	0509	HV probe; 50 KV range.	260-4 270	1/2	12.50
69 F 196	8375	Leads; alligator clips L terms.	260-3	1/2	1.75
69 F 203	7500	Leads; banana plugs allig. clip.	260-4	1	2.10
69 F 201	4235	Ever-Ready Leather Case	260, 270, 303	2	9.75
69 F 162	1818	Standard Leather Case	260, 270	2	8.50

Plug-in Adapters. Turn any 260 or 270 made since 1947 into 8 different tests. 4 3/8x5 1/16x3 1/16". 2 lbs.

Stock No.	Type	Function	Description	EACH
69 F 334	650	Transistor Tester	0-100 μ 3 beta ranges.	26.95
69 F 336	651	DC VTVM	0-0.5-1.0-2.5-5-10-25-50-100-250-500 v.	32.95
69 F 337	652	Temperature Tester	-50° to +250° F. in 2 ranges.	38.95
69 F 338	653	AC Ammeter	0-0.25-1.25-12.5-25 A; 50-3000 cps.	18.95
69 F 339	654	Audio Wattmeter	1 μ W to 100 W; 4/8/16/600 ohms.	18.95
69 F 340	655	Microvolt Attenuator	2.5-250,000 μ V, decade steps.	18.95
69 F 342	656	Battery Tester	Up to 90 volts.	19.95



MODEL 466 SERVICEMAN'S PORTABLE 5" "HANDISCOPE"

\$149.95

A compact, portable general purpose 5" oscilloscope for AM, FM or black-and-white TV servicing, and for industrial use. Contains horizontal push-pull amplification for X axis, vertical push-pull amplification for Y axis and an intensity modulation input for Z axis. Vertical response: $\pm$ 1 db from 15 cps to 100 kc; 6 db down at 250 kc; usable to 1 mc. Maximum vertical deflection sensitivity:

30 rms mv/inch. Maximum horizontal deflection sensitivity: 0.7 rms v/inch. Calibrating voltage P.P., 1 v. $\pm$ 10%. Input Resistance/capacitance 0.1 meg, 40 mmf (at sweep); 0.5 meg, 35 mmf (no atten.). 15 cps to 80 kc attenuator. Maximum input: 4 v. peak. Case size, 7 1/2x12 1/2x16 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 29 lbs.

69 FU 643. \$8 Monthly. 149.95

- * Features Horizontal and Vertical Push-Pull Amplification, Plus Intensity Modulation Input for the Z Axis
- * 30 Mr RMS/Inch Maximum Vertical Deflection Sensitivity

7"-SCALE VOM'S

269. Ranges: DC current, 0-16-160 μ a; 0-1.6-16-160 ma; 0-1.6-16-160-400-1600-4000. AC v., 0-3-8-40-160-800-4000. Ohms, 0-2K-20K-200K; megs, 0-2-20-200. 6x3 1/2". 100,000 ohms/v. DC. Leads, battery, 6 lbs.

69 F 153. \$5 Monthly. 89.95

269 F 153. 0181. 40,000 VDC probe for 269. 2 lbs. 13.267. Ranges: AC and DC v., 0-2.5-10-50-250-500-1000; DC ma, 0-1-10-100-500; DC amps, 0-10; db, -20 to +50 in 5 ranges; output v., 0-2.5-10-50-250; ohms—RX1 (12 ohms center), RX100, RX10K. 6x7 1/4x3 1/4". With battery, leads, 3 1/4 lbs.

69 F 345. \$5 Monthly. 54.95

268. Ranges: AC and DC v., 0-3-12-60-300-600-1200; DC ma, 0-4-20-40-80-160-320; DC amps, 0-12; db, -12 to +50 in 4 ranges; output v., 0-3-12-60-300; ohms—RX1 (12 ohms center), RX10, RX10K. With leads, battery 3 1/4 lbs.

69 F 348. \$5 Monthly. 54.95

4 1/2"-SCALE VTVM'S

311. Ranges: AC/DC/AF v., 0-1.5-5-15-50-150-500-1500. Res., 0-1K-100K ohms and 0-1-10-100-1000 megs. AF v., 0-1.5-5-15-50-150-500-1500, 30 cps-100 kc, $\pm$ 5%, P.P., 0-4-14-40-140-400-4000 v. 7 1/2x5 1/2x4 1/2". For 115 VAC. 11 lbs.

69 FX 587. \$5 Monthly. 69.95

69 F 208. 0732. 30,000 VDC probe for 311. 1 lb. 11.95

69 F 211. 0731. High-freq. probe for 311. 1 lb. 11.95

303. Ranges: AC/DC v., 0-1.2-12-60-300-1200; res., 0-1000-100K ohms, 0-1-10-1000 megs; db, -20 to +63 in 5 ranges. 7x5 1/4x3 1/4". Less RF probe (below). For 115 VAC. 6 1/2 lbs.

69 F 148. \$5 Monthly. 73.95

69 F 152. 303RT. Above, with roll-top case. 8 lbs. 82.95

69 F 150. RF Probe. For 303 1 lb. 8.95

69 F 149. HV Probe. For 303 30 KV. 1 lb. 11.95

715 AC VTVM (Not Illus.)

69 F 239. Response, 10 cps to 400 kc, $\pm$ 1 db. Ranges: AC rms v. 0.01-0.03-0.1-0.3-1-3-10-30-100-300. 5 1/2x7 1/2x3". With leads. F. 110-125 v., 50-60 cycle AC. 5 lbs. \$5 Monthly. 69.95

Accurate VOM's and VTVM's by R ENGINEERS, SERVICEMEN AND HOBBYISTS

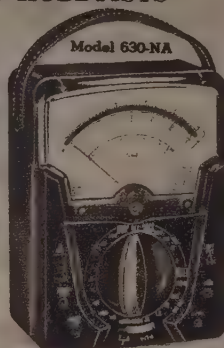
TRIPOLET



\$9.50 \$5
monthly



\$49.50 \$5
monthly



\$79.50 \$5
monthly



\$49.50

SERIES 630 TOP-PERFORMING VOM'S

MODEL 631 VTVM-VOM

meter operated VTVM, 0-1.2-6-30-120 v., 11 megs input imp. VOM: DC v., 0-3-12-300-12K (20K ohms/v.); AC and audio ohms, 0-3-12-60-300-12K (5K ohms/v.); DC 0-60; DC ma, 0-1.2-12-120-1200 (250 mv); amps, 0-12 (250 mv); db, -20 to +63; ma, 0-1500-15K; megs, 0-1.5-150. With batteries and leads. 3 1/2 x 5 1/2 x 7 1/2". Shpg. wt., 1 lbs.
113. \$5 Monthly..... **69.50**

MODEL 630-PL VOM

and DC v., 6 ranges each, to 5000 v. (DC 20,000 ohms/v.; AC at 5000 ohms/v.); DC current, 0.100 μ a, 0-10-100-1000 ma, and 0-10 μ a; resistance, 0-1000-10,000 ohms and 0-1000-10,000 ohms; db, -20 to +75 in 6 ranges; output 0-3-10-50-250-1000 at 5000 ohms/v. Accuracy: $\pm 3\%$ on DC to 1000 v.; $\pm 4\%$ on AC 1000 v.; $\pm 5\%$ on AC-DC at 5000 v. Frequency response: 5-500,000 cps in AC measurements. 7 1/2 x 5 1/2 x 3 1/2". With leads and batteries. Shpg. wt., 4 1/2 lbs.
229. \$5 Monthly..... **49.50**

MODEL 630-NA VOM

A top-performing VOM with 70 ranges; accurate within 1 1/2% of full scale reading on DC to 1200 v.; $\pm 3\%$ on AC to 1200 v. DC volts: 0-240-6-3-12-60-300-1200-6000 (10,000 ohms/v.); 0-120-3-1.5-6-30-150-600-3000 (20,000 ohms/v.). AC volts: 0-3-12-60-300-1200-6000 (5000 ohms/v.); 0-1.5-6-30-150-600-3000 (10,000 ohms/v.). Db, -20 to +77 in 12 ranges (600-ohm line at 1 mw.). DC microamps: 0-120 (240 mv); 0-60-600 (120 mv). DC ma: 0-1.2-12-120-1200 (240 mv); 0-6 (120 mv). DC Amps: 0-12 (240 mv); 0-6 (120 mv). Ohms: 0-1K-10K-100K, 0-100 megs. Output volts: 0-3-12-60-300-1200; jack with condenser in series with AC ranges. Frequency compensated from 35 cps to 20 Kc. Also, temperature compensated. Molded, fully insulated case, with easy-to-read open front meter. Size, 7 1/2 x 5 1/2 x 3 1/2". Mirror scale; meter has special diode protection against overloads. Supplied complete with test leads, alligator clips, easy-to-understand instruction manual and batteries. Shpg. wt., 4 lbs.
110. \$5 Monthly..... **79.50**

MODEL 630 VOM

- Protected Circuit Prevents Burnouts in Ohm Ranges
- Long, Easy-to-Read Meter
- 3% Accuracy on DC to 1200V

Has 5 1/2" meter and 1% precision resistors. Accurate within 3% on DC to 1200 v. Ranges: DC and AC volts, 0-3-12-60-300-1200-6000 (DC at 20,000 ohms/v., AC at 5,000 ohms/v.); DC current, 0-60 μ a, 0-1.2-12-120 ma and 0-12 amps; resistance, 0-1000-10,000 ohms and 0-1-1000 megs; db, -20 to +70 (600-ohm line at 1 mw.); output v., 0-3-12-60-300-1200; jack with condenser in series with AC ranges. 20-position switch selects circuit and range—minimizes chance of incorrect settings and burnouts. Molded, fully insulated case, 7 1/2 x 5 1/2 x 3 1/2". With batteries, leads, Shpg. wt., 6 lbs.
118. \$5 Monthly..... **49.50**

DELUXE SERIES 800 VOM AND VTVM

MODEL 800 VOM

Designed for lab serviceability, features ranges— $\pm 1 1/2\%$ accuracy on DC to 0 v.; $\pm 3\%$ on AC to 1200 v. DC volts: 7 ranges to 6000 (10,000 ohms/v.); 7 ranges to 6000 (20,000 ohms/v.). AC volts: 6 ranges to 6000 (5000 ohms/v.); 6 ranges to 3000 (10,000 ohms/v.). Db: -30 to +70 in 12 ranges. DC microamps: 1 range to 120 μ a; 2 ranges to 600 (120 mv). DC amps: 4 ranges to 1200 (240 mv); 3 ranges to 600 (120 mv). DC amps: 1 range to 12 (240 mv); 1 range to 6 (120 mv). ma: 3 ranges to 100K, 3 to 100 megs. DC polarity reversing switch, and 7" mirror scales with knife-edge pointer to minimize parallax. Meter protection against overload; fused, temperature and frequency compensated. Molded, fully insulated case, 7 1/2 x 6 1/4 x 3 3/4". Antistat treated plastic meter window. Supplied with leads and batteries. Shpg. wt., 4 1/2 lbs.
71. \$5 Monthly..... **89.50**

MODEL 850 VTVM

A wide-range VTVM for lab and shop use. Meter has large 7" dial scale. Sensitive 200 μ a meter movement is protected against overload. Features 0.5 volt full scale range on DC for checking low voltage circuits; zero center on all DC scales for FM discriminator alignment; single-unit probe has switch for DC or AC ohms. Frequency response is from 15 cps to 3 mc. Ranges: DC volts (11 megohms input resistance). 0-4-5-1.5-5-15-50-150-500-1500; AC RMS volts (0.83 megohms minimum input impedance). 0-1.5-5-15-50-150-500-1500; AC P.P. volts, 0-4-14-40-140-400-1400; resistance, 0-1000-10,000-100,000 ohms and 0-1-10-100-1000 megohms. Has meter protection against overload. Molded, completely insulated case has aluminum panel. 6 7/16 x 7 7/8 x 3 3/4". Supplied with 48" leads and battery. For 110-120 v., 50-60 cycle AC. Shpg. wt., 7 lbs.
251. \$5 Monthly..... **79.50**



Model 850 VTVM

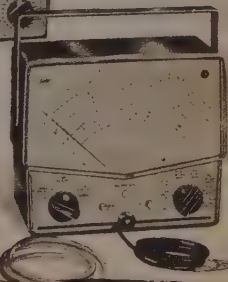
\$89.50

\$5 monthly

Model 800 VOM

\$79.50

\$5 monthly



Guarantees Your Satisfaction—or Your Money Back

ALLIED 301

TRIPOLET Accurate Test Equipment



**MINIATURE
VOM**



310 MINIATURE VOM

DC volts: 0.3-12-60-300-1200 at 20K ohms/v. AC volts: 0.3-12-60-300-1200 at 5K ohms/v. DC μ s: 0-600; DC ms, 0-60-600. Ohms: 0-20K-200K; megs: 0-2-20. Acc., 3% DC. $4\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{3}{8}$ 4 lb.

69 FC 667. \$5 Monthly..... **37.50**

69 F 146. 369 Leather Case. For 310 only. 6 oz. 3.20

10 Ammeter Adapter. For above or any VOM with 3 v. AC at 5K ohms/v. scale. Reads 6 ranges to 300 amps AC without breaking circuit or insulation. $4\frac{1}{2} \times 3\frac{1}{4} \times 1\frac{1}{4}$. 234 lbs.

69 F 231..... **15.50**

66 F 590. 379 Leather Case. Holds 310 and 10. 8 oz. 6.00

69 F 232. 101 Line Separator. (Not illus.) For readings with 10, above. 5 oz. 6.00

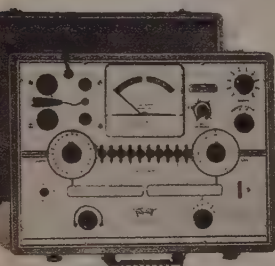
100 VOM and Ammeter Set. (Not illus.) 310 VOM, 10 adapter, 101, leather case, 311 leads. $3\frac{1}{2}$ lbs.

65 F 095. \$5 Monthly..... **64.50**

MODEL 310-C VOM

VOM similar to 310 above, but with polarity reversing switch; 15K ohms/v. AC sensitivity and range switch. $4\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{3}{8}$ 4 lbs.

65 FC 096. \$5 Monthly..... **44.50**



**Rejects Burned
Out Tubes In-
stantly—No
Waiting For Filaments to Heat**

MODEL 3414 TUBE TESTER

Filament voltages from 0.65 to 117 v. Features modified plate conductance for closer correlation to tube characteristics; improved neon shorts test indicator; variable leakage test. Offers greater circuit sensitivity for the newer tube types. Has large 4" tri-colored meter. Variable-leakage test indicates leakage from approximately 0.3 megs to over 3 megs. Gray-leatherette covered wood case, with hinged removable cover, $11\frac{1}{2} \times 15\frac{1}{2} \times 6\frac{1}{2}$. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 16 lbs.

69 FU 645. \$6 Monthly..... **109.50**

T-2247-BV Adapter. (Not illus.) For use with Model 3414 (above) and Model 3444 (not illustrated) testers. Permits testing television picture tubes in operation. Shpg. wt., 1 lb.

69 F 111..... **7.20**



Famous RCA

WV-98C (K) SENIOR VTVM KIT

200 μ amp meter movement; 196 precision multipliers; diecast aluminum case. $6\frac{1}{2}$ " meter has $\pm 3\%$ accuracy. In 7 ranges per function—reads AC v. rms and DC to 1000 megohms. AC input impedances of 0.83 megohm and 70 mmf to 1.5 megohms and 60 mmf; 11-megohm DC input resistance. Supplied with AC-DC-Ohms probe. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

65 F 133. \$5 Monthly..... **57.95**

WV-98C. Above, in wired form.

65 F 134. \$5 Monthly..... **79.50**

69 F 079. WG-289 HV Probe. Extends DC range of VOM's and VTVM's to 50,000 v. Less Multiplier. 1 lb. 11.95

69 F 060. WG-206 Multiplier. For WG-289. 1090 meg. 2 oz. 3.50

69 F 189. WG-297 HV Probe. For WV-77E. Same as WG-289, but has banana plugs. 1 lb. 11.95

WV-77E (K) VTVM KIT

Electronically protected. 11 meg. input. Ranges: 0-1000 meg, 7 ranges; AC rms, DC v.: 0-1500 v., 7 ranges; AC p-p v.: 0-4000 v., 6 ranges. DC accuracy: $\pm 3\%$. Responses $\pm 5\%$, 40 cps-5 mc. $7\frac{3}{8} \times 5\frac{1}{2} \times 4\frac{3}{4}$. With probes, leads and instructions. For 105-120 V. 50-60 cycle AC. 5 lbs.

69 F 078. \$5 Monthly. **29.95**

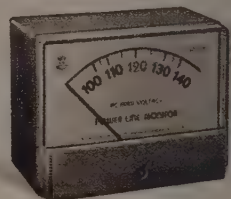
69 F 187. WV-77E. Above, but in wired form. 5 lbs. 43.95

69 F 185. WG-299D AC-DC Ohms Probe. Replacement for use with RCA Volt Ohmms VTVM's. 1 lb. 7.95

69 F 180. WG-301A Crystal Diode Probe. Slips on WG-299A, B or C. Extends RF range to 250 mc. 8 oz. 7.75



WV-38A



WV-120A

FOR FASTER TESTING AT A GLANCE

MODEL WV-38A(K) VOM KIT

Features 1 v. and 250 mv ranges for transistor servicing. Has large $5\frac{1}{4}$ " meter. Offers 20,000 ohms/v. input resistance on 8 DC ranges to 5000 v. AC accuracy: $\pm 5\%$. Reads 0-20 megs in 3 ranges. DC current: 0-50 μ amps, 0-1-10-100-500 ma, 0-10 amps. Reads db from -20 to +50 in 4 ranges. $6\frac{7}{8} \times 5\frac{1}{4} \times 3\frac{1}{8}$. With batteries, leads. 5 lb.

69 F 191. \$5 Monthly..... **29.95**

69 F 192. Model WV-38A. As above, in wired form. 5 lbs. 43.95

69 F 188. Model WG-270A Case. For above. 1 lb. 4.95

WV-120A POWER LINE MONITOR

Convenient to use—just plug line cord into AC outlet. Reveals fluctuations and "bounces" in line voltage. Ideal for labs, factories—wherever accurate knowledge of line voltage is required. May be hung on the wall or placed on work-bench. Range: 110-140 v. Accuracy: $\pm 2\%$ at 120 v. Scale has large, easy-to-read markings. $3\frac{1}{8} \times 5\frac{1}{8} \times 3\frac{1}{8}$. Wt., 1 $\frac{1}{2}$ lbs.

69 F 179..... **14.95**



WR-99A



WR-51A



WR-50A



Test Equipment and Accessories

WR-99A CALIBRATED MARKER-GENERATOR

Crystal calibrated, for aligning FM and TV (color and black-and-white) receivers, etc. Covers 19-260 mc. Ideal for color TV servicing. Built-in crystal calibrator, heterodyne detector, amplifier and speaker provide 240 check points at 1 or 10 mc intervals. Modulation frequencies: 1, 10, 4.5 mc, 600 cps. Sound and picture carrier markers available simultaneously. Also, has provision for use as Heterodyne Frequency Meter. Output: 0.1 v. min. Double shielded oscillator. Precision matched impedance/resistance pad attenuator, db in 5 db steps. 10x13 1/2 x 7 1/4". With RF output cable and instructions. For 105-120 v., 50 cycle AC. Shpg. wt., 21 lbs.

Model Z 639. \$13 Monthly.....242.50

WR-51A STEREO FM SIGNAL SIMULATOR

Generates signals for the complete service and maintenance of stereo multiplex FM tuners and adapters. Provides composite stereo output signal for either channel and a special "base test" signal for accurate phase adjustment of subcarrier transformers. Signals are modulated with 400, 1000 or 5000 cps frequencies, as desired. Has variable level 19 kc (10%) crystal-controlled subcarrier signal for checking lock-in range; 4 additional sine-wave signals (28-38-48-67 kc) for adjusting bypass networks; a 100 mc carrier signal; and a dial-controlled 5.35 mc signal to provide IF and harmonic markers. With 2 connecting cables. 10x13 1/2 x 8". For 105-125 v., 50-60 cycle AC. 14 lbs.

Model TU 258. \$13 Monthly.....249.50

WR-50A PORTABLE RF SIGNAL GENERATOR

Ideal for alignment and signal-tracing applications in the repair of AM and FM radios and receivers. Provides continuously tunable output from 85 kc to 50 mc, all on fundamentals. Calibration is accurate within 1%. Incorporates built-in 400-cycle audio oscillator for internal or external modulation.

Mode-follower output isolates oscillator—maintains waveform, voltage regulation and stability. Attenuator control of RF output level has range of approximately 2000 to 1. Provides peak 0.05 and 0.01 v. rms at high and low connectors, respectively. Shielded outputs. 10x10 x 6". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

Model 011. \$5 Monthly.....37.95



WR-64A COLOR-BAR/ DOT CROSSHATCH GENERATOR

Portable and easy to use, connects to antenna terminals of any color TV receiver. Produces 10 bars of different colors simultaneously, including R-Y, B-Y, G-Y, I and Q signals spaced at 30° phase intervals for checking phase and matrixing, and for frequency and phase alignment. Provides stable fine-line cross-hatch and dot patterns. Fixed number of bars and dots facilitate over-scan and linearity adjustment in both color and black-and-white sets.

Sound carrier permits accurate adjustment of receiver. Chroma control helps check color sync lock and color AFC alignment. Color sub-carrier, horizontal sync-pulse and "bar" frequencies are all crystal controlled for rock-steady patterns, free from "jitter" and "crawl." With shielded output cable. 10x13 1/2 x 7 1/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 16 lbs.

Model 69 F 658. \$10 Monthly.....189.50

RCA Television Servicing Accessories

225C Video Multimarker. Provides 7 simultaneous absorption-type markers at set frequencies. 1 lb.

Model 181.....32.50

304B RF Modulator. Permits marker generator modulation by sweep generator or. Wt., 1 lb.

Model 770.....16.50

307BK TV Bias Supply. 3 outputs, 0 to 5 v. 1 1/2 lbs.

Model 093.....11.95

25A TV Isotap. Adjustable isolation transformer. 15 lbs.

Model G 516.....22.00

W1 Degaussing Coil Demagnetizes scope and chassis. 4 1/2 lbs.

Model 094.....10.53

220-X1 Kinescope Socket Extension Cable. Fits any kine tube. 1/2 lb.

Model 69 F 328.....7.40

221X1 Deflection Yoke Convergence Extension Cable. 1/2 lb.

Model 69 F 329.....3.50

226-X1 Grid Shunt Switch and Cable. For convergence and matrix adjustments. Shpg. wt., 1/2 lb.

Model 69 F 333.....5.50

228-X1 Deflection Yoke Extension Cable. Shpg. wt., 2 oz.

Model 69 F 330.....5.25

13A100 High Voltage Extension Cable. Extends high voltage lead to RCA Color Test Jig. 3 oz.

Model 69 F 178.....2.50



11A1015 COLOR TEST JIG

Facilitates servicing of color TV receivers. Utilizes RCA type 21CYP22A tri-color kinescope. Eliminates necessity or removing picture tube from cabinet and of re-converging tube when chassis is returned. Control panel provides dynamic and static convergence. Metal cabinet has safety glass and kine mask. With instructions, data for use with CTC-4, 5, 7 and 9 chassis. Wt. 93 lbs.

Model 69 FZ 638. \$7 Monthly.....135.00

RCA COLOR TV SERVICING EQUIPMENT

When it comes to top-quality color TV servicing equipment, choose RCA—world-renowned accuracy and fine craftsmanship. On this page you'll find the latest in color TV servicing equipment designed to make your job easier and more profitable.

Quick or Express Shipment Recommended for Test Equipment

ALLIED 303



249-K With Deluxe 7 1/2" Meter



MODEL 249-K VTVM KIT

Deluxe peak-to-peak VTVM for color and monochrome TV servicing. Has big 7 1/2" meter in "no-burn-out" circuit. Balanced-bridge circuit, 1% multiplier resistors, zero center scale, and "Uni-Probe." Ranges: p-p volts, 0-414-421-40-420-4200 volts; DC/rms volts, 0-1.5-15-50-150-500-1500 volts. Response, 30 cps to 3 mc. Resistance, 0.2 ohms to 1000 meg in 7 ranges. Less solder. Size, 8 1/2 x 5 x 5". Wt. 5 lbs. For 105-125 v., 50-60 cycle AC. Shpg. wt., 9 lbs.

69 F 061. \$5 Monthly.....39.95

MODEL 249. As above, but factory wired.

69 F 136. \$5 Monthly.....59.95

MODEL 232-K. Same as 249-K, but has 4 1/2" meter. 8 1/2 x 5 x 5". Wt. 5 lbs.

69 F 060. \$5 Monthly.....29.95

MODEL 232. As above, but factory wired.

69 F 135. \$5 Monthly.....49.95

AC VOLT-WATT METER KIT

MODEL 261-K. 2 meg input. AC v.: 0-0.1-0.3-1-3-10-30-100-300-1000. 0 db, 10 cps to 150 kc. $\pm 4\%$. Power: 0-15-15-150 mw; 0-1.5-15-150 v, 0 db, 10 cps to 100 kc. $\pm 5\%$. Less solder. 8 1/2 x 5 1/4 x 7". For 105-125 v., 50-60 cycle AC. 6 lbs.

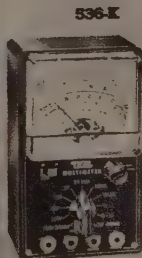
69 F 041. \$5 Monthly.....49.95

MODEL 261. As above, but factory wired.

69 F 040. \$5 Monthly.....79.95



566-K



536-K

565-K



232-K



261-K



250-K



255-K



222-K



221-K

Versatile Test Equipment in

MODEL 255-K AC VTVM KIT

Lab-sensitive 12-range unit. Frame-grid triode cathode follower input circuit; 2-stage R-C coupled amplifier. Range: 1-310-30-100-300 rms mv; 1-310-30-100-300 rms v. Response, 0 db 10 cps to 600 kc. Decibel range, -80 to +52 in 12 ranges. Accuracy, $\pm 3\%$ of full scale. Less solder. 8 1/2 x 5 1/4 x 7". For 105-125 v., 50-60 cycle AC. Shpg. wt., 7 lbs.

65 FU 039. \$5 Monthly.....44.95

MODEL 255. As above, but factory wired.

65 FU 038. \$5 Monthly.....72.95

AC VTVM AND AMPLIFIER KIT

MODEL 250-K. Same as 255-K above, but selector switch on panel converts unit to amplifier with 60 db gain on 1 mv range. Max. output: 5 v. rms. Wt., 7 lbs.

65 FU 037. \$5 Monthly.....49.95

MODEL 250. As above, but factory wired.

65 FU 036. \$5 Monthly.....79.95

MODEL 222-K VTVM KIT

11-meg DC input, 4 1/2" meter, 1% precision multiplier resistors, zero-center scale. Ranges: AC-DC v., 0-315-75-300-1500; resistance, 0.2-1000 meg in 5 ranges. Response, 30 cps to 3 mc. Accuracies: DC $\pm 3\%$ full scale; AC, $\pm 5\%$ full scale. With leads and "Uni-Probe"; less solder. Size 8 1/2 x 5 1/4 x 7". For 105-125 v., 50-60 cycle AC. Shpg. wt., 7 lbs.

65 FU 043. \$5 Monthly.....27.95

MODEL 222. As above, but factory wired.

65 FU 042. \$5 Monthly.....42.95

MODEL 221-K VTVM KIT

Similar to model 222-K, but has 25 meg DC input and AC-DC ranges to 1000 v. 9 1/2 x 16 x 5". Wt., 7 lbs.

69 F 039. \$5 Monthly.....25.95

MODEL 221. As above, but factory wired.

69 FX 025. \$5 Monthly.....39.95

VTVM PROBES

Use with Eico VTVM's. Av. wt., 1 lb.

Stock No.	Type	Description	EACH
65 F 049/PTP-11-K	P-to-P Kit for 11 megs		4.95
65 F 048/PTP-11	As above, factory-wired		6.95
69 F 062/PTP-25-K	P-to-P Kit for 25 megs		4.95
69 F 137/PTP-25	As above, factory-wired		6.95
69 F 063/PRF-25-K	RF kit for 25 megs		3.95
69 F 138/PRF-25	As above, factory-wired		4.95
69 F 068/PRF-11-K	RF kit for 11 megs		3.95
69 F 069/PRF-11	As above, factory-wired		4.95

VALUE-PACKED VOM KITS

MODEL 566-K VOM KIT. Has easy-to-read 4 1/2" meter for 38 ranges. Rectifier in dual half-wave hook-up. Uses divider resistors. AC/DC ranges: 0-1-50-100-500-5000 v. at 1000 ohms per v. (full scale-zero-to-one-volt range); 0-1-10 ma and 0-1-1 amps.; 0-5000-100,000 ohms, 0-1 meg; 6 db ranges, -20 to +69. With batteries. Less solder and leads. 6 3/4 x 5 1/4 x 3". 3 lbs.

65 F 045.....16.95

MODEL 566. As above, but factory wired.

65 F 044. \$5 Monthly.....22.95

MODEL 556-K. Same as 566-K, but has 1% precision resistors.

69 F 049.....18.95

MODEL 556. As above, but factory wired.

69 F 086. \$5 Monthly.....25.95

MODEL 536-K. Same as 566-K, but has 3" meter and 31 ranges.

69 F 047.....14.95

MODEL 536. As above, but factory wired.

69 F 084.....18.95

MODEL 526-K. Same as 536-K (at lower left) but has 1% precision resistors.

69 F 045.....15.95

MODEL 526. As above, but factory wired.

69 F 097. \$5 Monthly.....19.95

MODEL 565-K VOM KIT. A 31-range VOM featuring 20,000 ohms/volt DC sensitivity and 4 1/2" meter with 50 μ a movement. Ranges: AC-DC, output volts, 0-2.5-10-50-250-1000-5000 (AC at 1000 ohms/v.); DC 0-100 μ a, 0-10-100-500 ma, 0-10 amps; 0-2000-200,000 ohms, 0-20 megs; -12 to +55 db in 5 ranges. With batteries. Less leads, solder. 6 3/4 x 5 1/4 x 3". 4 lbs.

69 F 048. \$5 Monthly.....24.95

MODEL 565. As above, but factory wired.

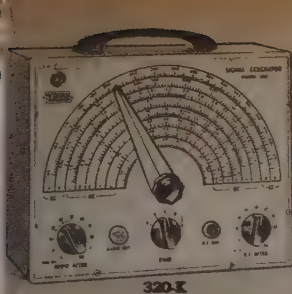
69 F 805. \$5 Monthly.....29.95

MODEL 555-K. Same as 565-K, but has 1% precision resistors.

69 F 046. \$5 Monthly.....29.95

MODEL 555. As above, but factory wired.

69 F 098. \$5 Monthly.....34.95



320-K



315-K



324-K

Both KIT and WIRED Form

RADIO-FREQUENCY SIGNAL GENERATOR KITS

MODEL 320-K. Stable Hartley RF oscillator. Covers 150 kc to 34 mc on 5 fundamental bands: 150-450 kc, 450-1250 kc, 1.25-4 c, 4-12 mc, 11-34 mc. 2 calibrated harmonic bands: 22-68 mc, 33-102 mc. RF output, over 1 volt. Audio output, 1½ to 2 volts. Unmodulated or 400-cps modulation through Colpitts oscillator. AF and RF attenuators. 9" dial. 8x1x4¾". Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

9 F 040. \$5 Monthly.....24.95

MODEL 320. As above, but factory wired.

9 F 099. \$5 Monthly.....33.95

MODEL 322-K. Kit, as above, but with individual calibration of each of 5 bands.

9 F 066. \$5 Monthly.....27.95

MODEL 322. As above, but factory wired.

9 F 067. \$5 Monthly.....38.95

MODEL 315-K. Deluxe in detail and performance. Dial frequency-readings accurate within 1% on all 7 ranges. Covers 75 kc to 50 mc on 5 ranges. Calibrated harmonics, 13 mc to 150 mc on 2 ranges. Internal 400-cps audio generator with attenuator for RF modulation. RF output, over 1 volt.

Provision for external modulation. Bandspread vernier tuning. Illuminated dial and gear-driven, anti-backlash, hairline pointer protected by glass. Regulated power supply for unflinching accuracy. Shielded chassis plus line filter for low leakage output. Size, 13x12x7". Less solder. 105-125 volts, 50-60 cycle AC. Shpg. wt., 20 lbs.

69 FX 609. \$5 Monthly.....49.95

MODEL 315. As above, but factory wired.

69 FU 626. \$5 Monthly.....69.95

MODEL 324-K. Provides modulated or unmodulated RF signal from 150 kc to 435 mc. Has expanded frequency range—6 fundamental bands: 150-400 kc, 400-1200 kc, 1.2-3.5 mc, 3.5-11 mc, 11-37 mc and 37-145 mc. One harmonic band covers 111-435 mc. Calib. accuracy, ±1.5%. Output impedance, 50 ohms.

Internal modulation of 400 cps variable from 0 to 50%; can be used for audio testing. Input has gain control for use with external modulator. Colpitts RF oscillator is directly modulated by cathode follower. Fine and coarse RF attenuators. 6:1 vernier tuning. 8x10x4¾". Less solder. For 105-125 v., 50-60 cycle AC. 10 lbs.

69 F 086. \$5 Monthly.....28.95

MODEL 324. As above, but factory wired.

69 FU 142. \$5 Monthly.....39.95

MODEL 377-K SINE AND SQUARE WAVE AUDIO GENERATOR KIT

Uses Wien-Bridge resistance-capacitance type oscillator circuit with 1% resistors for sine and square waves. Perfect for servicemen, hobbyists, etc. Sine wave range: 20-100,000 cps in 4 bands, ±1½ db from 60-50,000 cps, less than 1% distortion. Square wave range: 60-50,000 cps in 4 bands.

5% tilt at 60 cps. 5% rounding at 30,000 cps. Output: 10 v. across 1000 ohms. Hum less than 0.4% of rated output. 6½" dial has 0-100 reference scale. Calibration accuracy, ±3% or 1 cps. 7½x11x6x7½". Less solder, leads. For 105-125 v., 50-60 cycle AC. Shpg. wt., 14 lbs.

9 F 610. \$5 Monthly.....37.95

MODEL 377. As above, but factory wired.

9 F 624. \$5 Monthly.....54.95

SWEEP MARKER GENERATOR KIT

MODEL 369-K. Accurately aligns FM, color and black-and-white TV. Covers 3 to 216 mc in 5 ranges. Variable frequency marker provides output from 2 to 75 mc on fundamentals; to 225 mc on harmonics. Sweep varies from 0-30 mc. Built-in 4.5-mc crystal marker for oscillator.

Dual markers for RF or IF alignment. Provision for external marker. Continuously variable sweep and marker attenuators. Retrace blanking, 50 ohms. Five tubes; rectifier. 8¾x13½x7¼". Less solder. For 105-125 volts, 50-60 cycle AC. 16 lbs.

99 FU 616. \$5 Monthly.....69.95

MODEL 368. As above, but factory wired.

99 FU 658. \$6 Monthly.....119.95

NEW MODEL 369-K TV/FM SWEEP MARKER GENERATOR KIT

TV/FM aligning unit features post-injection marker. Sweep signal is fed only to IF strip being aligned. At output end, demodulator cable picks off signal and feeds it to mixer stage in generator where markers are added. This means marker signals are unaffected by receiver circuitry—traps in receiver cannot reduce or eliminate marker. Alignment is faster, more accurate.

All-electronic sweep circuit—no moving parts to wear. Independent sweep generator has 5 fundamental ranges from 3.5 to 316 mc. Variable frequency marker provides output on 3 fundamental ranges from 2 to 60 mc. Has 60 to 225-mc range on harmonics. 4.5-mc crystal supplied for rapid check of marker generator alignment. 6:1 vernier dial; 360° scale. Blanking and 3-stage AGC circuits. Impedance, 50 ohms. 6 tubes; rectifier. 8½x12½x7". Less solder. For 105-125 v., 50-60 cycle AC. 16 lbs.

69 FU 741. \$5 Monthly.....89.95

MODEL 369. As above, but factory wired.

69 FU 742. \$7 Monthly.....139.95

SWEEP GENERATOR KIT

MODEL 360-K. For alignment of VHF-UHF TV and FM receivers. Covers 500 kc to 228 mc. Variable sweep, 0-30 mc. Crystal marker oscillator with variable amplitude. Provision for injection of external marker. Less 5-cm crystal, solder. 8x10x6¾". For 105-125 v., 50-60 cycle AC. 12 lbs.

69 F 042. \$5 Monthly.....39.95

MODEL 360. As above, but factory wired.

69 FX 622. \$5 Monthly.....59.95



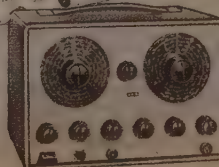
377-K



369-K



360-K



368-K

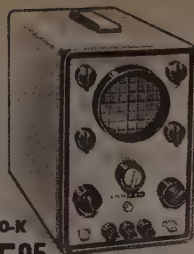


460-K
Wideband
Scope Kit

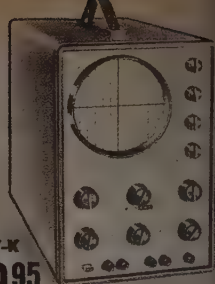
\$89.95

\$5 monthly

For color and
monochrome TV



430-K
\$65.95



427-K
\$69.95

5" OSCILLOSCOPE KIT

MODEL 460-K. Wideband, for color and monochrome TV. Response is flat from DC to 4.5 mc, usable to 10 mc. Easily reproduces 3.58-mc color TV synchronizing burst. Vertical sensitivity, 25 mv/inch. Permits peak-to-peak measurements. Full-screen DC vertical positioning. 2X horizontal positioning. Sweep: 10 cps to 100 kc, plus-low frequency sweep. 13x8½x16". For 105-125 volts, 50-60 cycle AC. 32 lbs. Express.

69 FZ 612. \$5 Monthly.....**89.95**

MODEL 460. As above, but factory-wired.
69 FU 631. \$7 Monthly.....**129.50**

VOLTAGE CALIBRATOR KIT

MODEL 495-K. (Not illus.) Injects calibrated, semi-square wave on scope screen for comparison with any waveform. Ranges: 0-1-10-100 v. peak-to-peak. Accuracy ±5% of full scale. 5x7½x4". Less leads. For 105-125 v., 60 cycle AC. Wt., 4 lbs.

69 F 050.....**19.95**

MODEL 495. As above, but factory wired.
69 F 093.....**24.95**

NEW 430-K 3" SCOPE KIT

Compact and lightweight general-purpose oscilloscope with 3" flat-face CRT and mu-metal neck shield. Great performer for industrial, servicing, home laboratory or Ham shack use. Ideal for modulation monitoring. 1500-v. accelerating potential gives sharp, high-luminescence trace.

Vertical Amplifier: flat from 2 cps to 500 kc; -6 db at 1 mc. Sensitivity 25 mv/cm; cathode-follower input; fine attenuator plus a 2-position LO-HI (100/1) frequency compensated coarse attenuator; input impedance 1 meg shunted by 30 mmf. **Horizontal Amplifier:** flat from 2 cps to 300 kc; sensitivity 0.25 v. rms/cm; cathode-follower input with fine attenuator; input imp. 10 megs shunted by 40 mmf.

Sweep Circuit: recurrent sweeps from 10 cps to 100 kc in 4 overlapping ranges; fully automatic sync on all ranges; full retrace blanking; 60-cps sine wave sweep. 8½x5¾x11¼". For 105-125 v., 60 cycle AC.

65 FU 269. \$5 Monthly, 11 lbs....**65.95**

65 FU 270. Model 430. Above, wired..99.95

ADVANCED 5" SCOPE KIT

MODEL 427-K. Vert. amp. offers direct or capacitive inputs. Automatic sync. Flat from DC to 500 kc; -6 db at 1 mc; 3.5 mv rms/cm sensitivity. Horizontal Amp.: flat, 2 cps to 450 kc; 0.18 v. rms/cm sensitivity. Sweep: 10 cps to 100 kc in 4 ranges. 12½x9½x16½". For 105-125 v., 60 cycle AC. Ship. wt., 34 lbs.

65 FU 064. \$5 Monthly.....**69.95**

65 FU 065. Model 427. Above, wired, 109.95

488-K ELECTRONIC SWITCH KIT. For viewing 2 patterns on 1 scope. Variable switching. ±2 db, 0-30,000 cps. 6x8x6". Less leads. For 105-125 v., 60 cycle AC. 7 lbs.

69 F 059.....**23.95**

69 F 134. Model 488. Above, wired...39.95

SCOPE PROBES. Shielded. Av. wt., 5 oz.

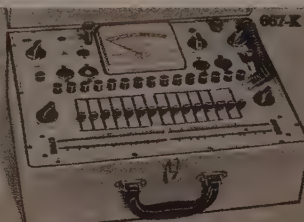
Stock No.	Type	Description	EACH
69 F 054	PSD-K	Demodulator Probe Kit	3.95
69 F 129	PSD	As above, but wired	5.95
69 F 055	PD-K	Direct Probe Kit	2.95
69 F 130	PD	As above, but wired	3.95
69 F 056	PLC-K	Low Capacity Probe Kit	3.95
69 F 131	PLC	As above, but wired	5.95



666-K



628-K



667-K



680-K

MODEL 666-K TUBE and TRANSISTOR TESTER KIT

Indicates Gm, Gp, peak emission and leakage of virtually all receiving tubes. Measures transistor collector current, current amplification factor. 4½" 200 µ meter movement. Roll-chart has snap-in windows. 4½x15x12". For 105-130 v., 60 cycle AC. 20 lbs.

69 FX 757. \$5 Monthly.....**69.95**

69 FX 758. Model 666. As above, factory wired.....**109.95**

NEW MODEL 628-K TESTER KIT. Tests tubes for emission, shorted elements, open elements, continuity. Tests miniatures, octals, localts, novistors, novars, compactrons. Uses CRU adapter for testing color and black-and-white TV picture tubes. 13 lever-type switches. Full-vision, 4½" meter with 3-color scale for matching. Fused. 4½x12½x9½". For 105-125 v., 60 cycle AC. Wt., 14 lbs.

69 FX 730. \$5 Monthly.....**44.95**

69 FX 729. Model 628. As above, factory wired.....**59.95**

69 FX 615. Model L-1. Lid for models 628-K, 628. 2 lbs.....**3.98**

MODEL 610 TUBE TESTER ADAPTER. (Not illus.) Adapts 666 for novistors, novars, miniatures, compactrons. 1½x2½x6". Wt., 1 lb. 65 F 047. Kit.....**5.95** 65 F 046. Wired.....**11.95**

69 F 728. Model CRU Adapter. (Not illus.) Adapts 628, 667 for testing color and black/white TV picture tubes. Wt., 1 lb.....**9.95**

NEW DYNAMIC TUBE and TRANSISTOR TESTER KIT

MODEL 667-K. Combines a mutual conductance test with a peak emission test—gives a single reading of tube quality. Also spots bad NPN and PNP transistors by gain and leakage tests. Tests almost every receiving tube made including: novistors, novars, compactrons, miniatures, subminiatures, octals and localts. Also checks many low-power transmitting and special-purpose tubes, voltage regulators, cold-cathode regulators, electron-ray indicators, etc. Multi-circuit level switch; 13 tube-element pushbutton switches. 4½" 200 µ D'Arsonval meter; roll-chart in snap-in window. Carrying case. 4½x15x12". For 105-130 v., 60 cycle AC. 20 lbs.

69 FX 727. \$5 Monthly.....**79.95**

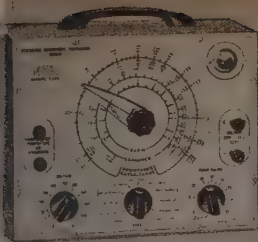
69 FX 726. Model 667. As above, but factory wired.....**129.95**

MODEL 680-K TRANSISTOR TESTER KIT

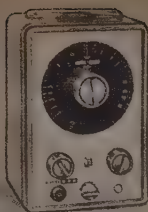
Accurately measures basic transistor and diode characteristics. Measures ICBO, ICEO, DC Beta; simulated AC Beta. 20,000 ohm/v. meter reads 0-5-50 DC volts; 0-2000-200,000 ohms and 0-20 mega; also 0-50-500 µv and 0-5-50-500 ma DC. Plastic case. 3x5¼x6¾". With leads and batteries. Shpg. wt., 3 lbs.

65 F 054. \$5 Monthly.....**25.95**

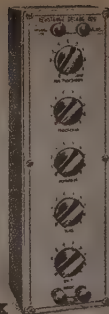
65 F 053. Model 680. As above, but factory wired.....**39.95**



950B-K



955-K



1171-K

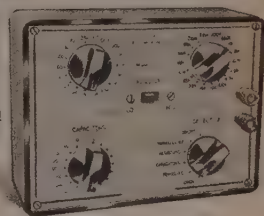


1140-K
Combination
R-C Box Kit

\$1495

complete

Invaluable
service tool



R-C BRIDGE KIT

MODEL 950B-K. Combines an R-C bridge and C-L comparator. Measures (in 4 ranges) ohms to 500 megohms and 10 mhm to 5000 ohms. Has .05 to 20 comparator range. Variable 0-500 v. DC source tests capacitors for shorts and leakage. Measures power factor electrolytics. Less leads. 8x10x4 3/4". For 125 v., 60 cycle AC. Wt., 10 lbs.

F 043. \$5 Monthly. **23.95**

F 095. Model 950B. Above, wired. **29.95**

MODEL 1100-K RESISTANCE SUB. BOX (Not illus.) Gives values in multiples of 15, 22, 33, 47, 68, 100 ohms, from 15 ohms to 10 megohms (1 watt, 10%). 3 3/4 x 6 1/2 x 9". Less leads. Wt., 2 lbs.

F 053. \$5 Monthly. **7.95**

F 128. Model 1100. Above, wired. **12.95**

MODEL 1120-K CAPACITOR SUB. BOX (Not illus.) Values from 0.0001 to 0.22 mfd in 18 steps. $\pm 10\%$ accuracy. Most rated 500 v.; others at 400 v. 3 3/4 x 6 1/2 x 3". Less leads. Shpg. wt., 2 lbs.

F 065. \$5 Monthly. **6.95**

F 141. Model 1120. Above, wired. **10.95**

CAPACITOR TESTER KIT

MODEL 955-K. Measures capacitance and checks for shorts and opens in or out of circuit. Wien bridge permits in-circuit measurement (0.1 to 50 mfd) at low shunting resistance. $\pm 100\%$ accuracy. Short Test: reliable up to 2000 mfd; shunt resistance may be as low as 1 ohm. Open Test: checks capacitors as small as 15 mfd; shunt resistance low as 35 ohms for in-circuit testing. 4" dial. 8 1/2 x 5 3/4 x 6". Less leads. For 105-130 v., 60 cycle AC. Wt., 3 lbs.

65 FU 056. \$5 Monthly. **19.95**

65 F 055. Model 955. Above, wired. **39.95**

RESISTANCE DECADE BOX KIT

MODEL 1171-K. Permits changing resistance in a working circuit at the flip of a switch. May be used alone or in conjunction with 950B-K R-C bridge (at left). Supplies resistance values from 0 to 99,999 ohms. Uses 0.5% accurate resistors. Separate comparator position and binding posts permit instant substitution. Rugged steel case. 3 1/2 x 12 x 3". Less leads. Shpg. wt., 3 lbs.

69 F 044. \$5 Monthly. **24.95**

69 F 096. Model 1171. Above, wired. **29.95**

R-C COMBINATION BOX KIT

MODEL 1140-K. A versatile combination of Models 1100-K and 1120-K (at left). Has facilities for selection of either R alone, C alone, or series or parallel combinations for R and C (1350 combinations!). Resistance values from 15 ohms to 10 megohms; capacitance values from 0.0001 to 0.22 mfd. Minimum accuracy $\pm 10\%$. Resistors are 1-watt carbon; capacitors are silver-mica or molded/impregnated plastic—most are rated at 600 WVDC. A real time-saver in servicing, lab work, and study. May be substituted in operating circuit to determine value. 5-way binding posts. Size, 5 1/2 x 6 3/8 x 2 3/16". Less leads. Shpg. wt., 3 lbs.

69 F 258. \$5 Monthly. **14.95**

69 F 259. Model 1140. Above, wired. **19.95**

CAPACITOR DECADE BOX KIT

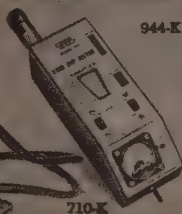
MODEL 1180-K. (Not illus.) 100 mhm to .111 mhm in 100 mhm steps. 350 WVDC. $\pm 1\%$ accurate silvered micas. Positive detent ceramic switches. Zero capacitance: 7 mfm. 9 x 3 1/2 x 3 1/2". Less leads. Wt., 3 lbs.

69 F 057. \$5 Monthly. **17.95**

69 F 132. Model 1180. Above, wired. **24.95**



630-K



710-K



944-K



584-K

540-K
All-in-One
Tester

\$1295

complete



CRT CHECKER KIT

MODEL 630-K. Tests all CRT's—has bridge measurement of peak beam current. Neon lamp acts as a sensitive bridge balance indicator. Balance control calibrated directly in terms of CRT condition. 2 sockets, each with 2 1/2-ft. cable for 12-pin and 14-pin bases. 6 1/2 x 9 3/4 x 3". For 105-125 volts, 60 cycle AC. Shpg. wt., 5 lbs.

F 051. \$5 Monthly. **19.95**

F 126. Model 630. Above, wired. **27.95**

CONTINUITY TESTER KIT

MODEL 612-K. (Not illus.) Battery-powered neon continuity checker. Rapidly checks neon lamp indicator. CRT adapter plug. 7-pin, 9-pin, octal and local sockets. Aluminum panel, bakelite case. With batteries. 6 1/2 x 3 3/4 x 2". Wt., 2 lbs.

F 073. \$5 Monthly. **4.95**

F 074. Model 612. Above, wired. **6.95**

GRID-DIP METER KIT

MODEL 710-K. Operates as oscillating detector or wavemeter—covers 400 kc to 250 mc in 8 ranges. Finds frequencies of oscillators or tuned circuits; pre-tunes and neutralizes transmitters; etc. Has sensitivity control; 500 μ a meter; 1:7 drive ratio; phone jack; plug-in coils. 2 1/4 x 2 3/4 x 6 1/2 x 3". For 110-120 v., 60 cycle AC. 3 lbs.

69 F 250. \$5 Monthly. **29.95**

69 F 261. Model 710. Above, wired. **49.95**

FLYBACK TESTER KIT

MODEL 944-K. Spots defective flyback transformers and yokes in black-and-white and color TV. Checks continuity of yokes, speakers, etc. Features grid-dip principle and separate calibrations. 4 1/2" meter with 3 separate colored scales. 5 x 8 1/2 x 5". For 105-125 v., 60 cycle AC. Wt., 5 lbs.

69 F 250. \$5 Monthly. **23.95**

69 F 133. Model 944. Above, wired. **34.95**

BATTERY TESTER KIT

MODEL 584-K. Quickly checks batteries used in portable radios, hearing aids, flashlights, photo-flash equipment, etc. Test Switch Positions (volts): 1.5, 4.5, 6.0, 7.5, 9.0, 22.5, 45, 67.5, 75, 90, plus spare. Large, easy-to-read 3 1/2" meter. Bakelite case, aluminum panel. 6 1/4 x 3 3/4 x 2". Complete with leads. Shpg. wt., 2 lbs.

69 F 067. \$5 Monthly. **9.95**

69 F 145. Model 584. Above, wired. **12.95**

READI-TESTER KIT

MODEL 540-K. AC/DC voltmeter, ammeter, ohm/DC volts, 0-7.5-15-150-300; AC/DC amps, 0-15; Resistance, 0-1000 ohms. Neon indicator, 3 1/2" meter. Panel outlet for current metering. Complete with batteries and leads. 6 1/2 x 3 3/4 x 3 1/2". Shpg. wt., 3 lbs.

69 F 070. \$5 Monthly. **12.95**

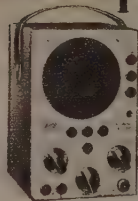
69 F 143. Model 540. Above, wired. **15.95**

EICO

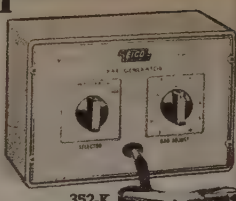
Test Equipment



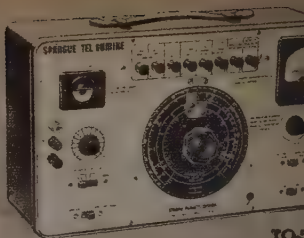
147-K



145-K



352-K



TO-5

TEST INSTRUMENTS—KIT OR WIRED

DELUXE SIGNAL TRACER KIT

MODEL 147-K. Eico's outstanding signal tracer for fast trouble-shooting, in easy-to-build kit form. Has high- and low-gain RF channels with internal wide range demodulator—permits direct observation of signal. Output for VTVM or oscilloscope. Use as speaker, output transformer, or amplifier. Features RF, AF visual-aural monitoring, magic eye tube, 5" speaker, watt-meter, noise localizer and hum balance. Gray portable case, 9x10x5". Complete with all probes; less solder. For 105-125 volts, 60 cycle AC. Shpg. wt., 10 lbs.

69 F 064. \$5 Monthly.....29.95

MODEL 147. Signal tracer as above, but factory-wired. Shpg. wt., 10 lbs.

69 F 140. \$5 Monthly.....44.95

TRACER, BAR GENERATOR KITS

MODEL 145-K SIGNAL TRACER. Checks IF, RF, video and audio circuits. Speaker, amplifier and noise locator. With probes. For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 7 lbs.

69 F 041. \$5 Monthly.....23.95

MODEL 145. Signal tracer as above, but factory-wired. Wt., 7 lbs.

69 F 094. \$5 Monthly.....32.95

MODEL 352-K BAR GENERATOR KIT. Produces 16 vertical and 12 horizontal bars. Video tunable over channels 2-6. 7 1/2 x 5 1/4". Less solder. For 105-125 v., 60 cycle AC. Wt., 4 lbs.

69 F 052. \$5 Monthly.....19.95

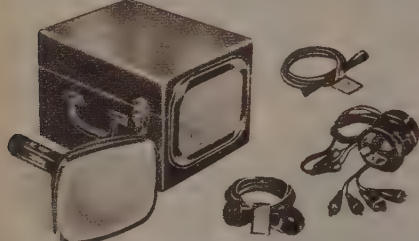
MODEL 352. Same, factory-wired.

69 F 127. \$5 Monthly.....29.95

SPRAGUE TO-5 TEL-OHMIKER

Bridge-type capacitor analyzer. Measures capacitance, insulation, resistance, power factor and leakage current. Capacitance range reads to 200 mfd. Includes special low-capacitance range of 0-100 mmf with accuracy of $\pm 2\%$ or 1 mmf. Magic eye indicator for balancing. Shows insulation resistance to 20,000 mega. Measures power factor of electrolytics to 55%. Gives leakage current reading for electrolytics with exacted voltage up to 600 volts applied. Has turns-ratio scale for transformers. Range selection push-buttons discharge capacitors when released. Rugged, compact portable case, size, 8 1/2 x 14 1/2 x 6 1/8". Has carrying strap. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 14 1/2 lbs.

66 FX 591. \$5 Monthly.....92.50



I. H. 8" TELE-CHECK

MODEL CR-118. Portable cathode-ray-tube substitution unit. Self-focusing. For checking picture tubes of TV sets with either electrostatic or electromagnetic focusing. Has universal yoke for 52", 66", 70", or 90" yokes. Adjustments made by use of horizontal and vertical lines on tube face. Size, 12x11 1/2 x 15". Complete with leads, face plate and 8XP4 CRT. In portable case. Shpg. wt., 4 lbs.

69 FX 657. \$5 Monthly.....44.95

MODEL CR-168. As above, but with 8YP4 CRT, 110" universal yoke. Shpg. wt., 12 lbs.

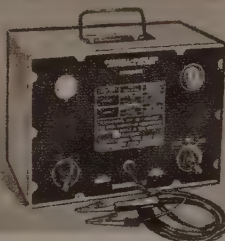
69 FX 649. \$5 Monthly.....54.50

MODEL CR-167. As above, less picture tube. Takes 8XP4 or 8YP4. Shpg. wt., 9 1/2 lbs.

69 FX 651. \$5 Monthly.....28.50

MODEL CR-168S. Same as CR-168, plus test speaker. 15 lbs.

69 FX 650. \$5 Monthly.....64.50



BF-90



BF-60

CORNELL-DUBILIER CAPACITOR TESTERS

BF-90 CAPACITOR CHECKER. Tests capacitors in circuit. Condition indicated by Magic Eye. Checks capacitors from 30 mmf to 2000 mfd for open, short or intermittent condition; from .1 mfd to 2000 mfd for shorts. 7x10x5 1/2". With leads. For 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.

69 FX 629. \$5 Monthly.....41.75

BF-60 CAPACITOR-RESISTOR BRIDGE. Checks for opens, shorts, intermittent capacity and P/F of electrolytics. Checks insulation resistance of papers, micas and ceramics; measures capacity between wires and shielding, transformer windings, etc. 10 mmf to 1000 mfd in 4 ranges; 100 ohms to 5 mega in 2 ranges. 5 polarizing voltages: 25-450 DC. Size, 5 1/2 x 7 x 10". For 110-125 volts. 50-60 cycle AC. Shpg. wt., 12 lbs.

69 FX 627. \$5 Monthly.....51.85

MILLEN MODEL 90651 GRID-DIP METER

- 2" Easy-to-Read Meter
- 7 Direct-Reading Scales

- With Coils for 1.7-300 mc
- Polypropylene Carrying Case

Calibrated, stable RF oscillator unit with 2" meter for reading grid current and checking resonance. Has 7 direct-reading scales and 0-100 scale. All scales on the 285° calibrated drum dial are same length. Frequency-determining coil plugs into unit to serve as probe. Supplied with coils for 1.7 to 300 megacycles, each in a molded poly-

styrene case. Grid-dip meter measures 7x 3 1/2 x 3 3/8" overall. With polypropylene storage and carrying case for meter and coil/probes. For operation from 110-120 volts, 50-60 cycle AC; also has terminals for extra-convenient battery operation. Shpg. wt., 3 1/2 lbs.

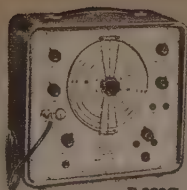
65 F 090. \$5 Monthly.....68.85



Scope, VOM's, Tube Testers and Test Leads



T62W



E-200C



120



S55W

MODELS T62W AND E-200C

MODEL T62W. TUBE TESTER. Tests miniatures, compactrons, nuvitors, novars, novals, v. reg., industrial, European types. Checks for shorts, opens and continuity. Checks CRT's (adapter below). 9x13x1 1/4". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

9 F 764. \$5 Monthly..... 69.95

5 F 104. PTA CRT Adapter. 1 lb..... 9.95

MODEL E-200C SIGNAL GENERATOR. Signal-marker generator for AM, FM and TV. 1% accuracy. 88 kc to 440 mc; 110 mc fundamentals. Un-mod. RF, 400-cps mod. AF, 440-cps sine wave. 0-50 v. AVC-AGC output. 11 1/2x13x6 3/8". 110-120 v., 60 cycle AC. Wt., 19 lbs.

9 F 635. \$6 Monthly..... 109.95

120 MULTI-RANGE VOM

A very sensitive instrument featuring: 61 ranges, 1% precision resistors, 50-micro-amp, 5 1/2" meter with $\pm 2\%$ full-scale accuracy, mirrored scale and polarity reversing switch. Ranges: AC, +DC, -DC, output v., 0-0.3-1.2-3-12-60-300-600-1200-6000 with 5000 ohms per volt on AC and 20,000 ohms per volt on DC; DC, 0-60-300 μ a, 0-1.2-12-120-600 ma, 0-12 amps; 0-200-2000-200,000 ohms, 0-2-20 megs; 8 db ranges, -20 to +77. Has full-view polished mirrored-scale to eliminate parallax and permit easier accurate reading. "Transit" position on range selector protects meter while being transported. With batteries and leads. Molding phenolic case. Size, 7x5 3/8x3". Shpg. wt., 5 lbs.

69 F 106. \$5 Monthly..... 47.95

S55W OSCILLOSCOPE

Lab-quality, rugged and versatile scope at a moderate price. For servicing color as well as black and white TV. Push-pull outputs in both the horizontal and vertical amplifiers. Sensitivity: DC vert., 70 mv/in., AC vert., 25 mv rms/in.; horizontal, 0.6 v. rms/in. Response: DC vert., ± 3 db to 4.5 mc; horizontal, ± 3 db, 1 cps to 400 kc. Input impedance: Vertical, 1.5 megs; horizontal, 5 megs. Cathode-follower horiz. input. Rise time, better than .08 microsecond. Four-step vertical attenuator, frequency-compensated. Has push-pull voltage calibrator and vertical polarity reversal switch. Size, 18 1/4x13 1/4x8 3/4". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 32 lbs.

69 F 756. \$8 Monthly..... 155.95



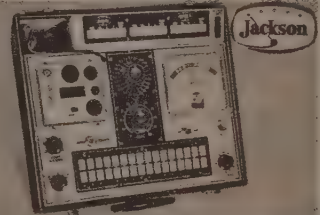
DON BOSCO "MOSQUITO"

Pen-size signal injector for locating defective circuits quickly and accurately. Cordless, with detachable probe, generates a signal rich in AF, IF and RF frequencies. Self-contained transistor oscillator powered by a single 1.5 volt penlight cell. Can be coupled into magnetic circuits without leads. 5 1/2" long, 1/2" dia. 3 oz.

9 F 303..... 9.95

STETHOTRACER. Detects or demodulates any low-level mw audio or modulated RF signal. 60 cps-200 mc. With earphone, cord, plug, 3 probes, RF probe, lead, btry. 3 oz.

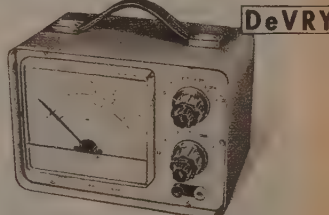
9 F 018. \$5 Monthly..... 34.95



JACKSON 648S TUBE TESTER

Dynamic tube tester featuring flexibility and high-speed set-up. Checks old and new tube types, including nuvitors, compactrons, novars, etc. Complete dynamic test under load. Only 3 controls to set: heater voltage, plate and sequence switch. All test sockets grouped in one convenient section. Tests each tube element for shorts; checks leakage from 250K to 2 megs. Meter has "Bad-Good" and percent scale. Zig-zag roll chart eliminates unnecessary twirling. Two-tone portable plastic case, 16 1/2x13 3/4x6". For 110-120 volts, 60 cycle AC. Shpg. wt., 25 lbs.

69 FX 662. \$9 Monthly..... 169.95



DE VRY MULTIMETER

Offers all the advantages of a VTVM and a sensitive microammeter. Fully transistorized. Meter movement and transistors completely protected against overload. Features high input impedance, temperature stability, wide frequency response. Ranges: DC-AC volts, 0-1-10-100-1000; DC microamps, 0-50-500; DC ma, 0-5-50; resistance, 0-10 megs in 4 ranges. AC response, ± 1.5 db, 10 cps to 500 kc. Input impedance, AC, up to 1.85 megs; DC, 10 megs. Completely portable—operates (with low current drain) on 4 standard flashlight batteries. Size, 7 3/4x5 1/2x4 1/2". Shpg. wt., 6 lbs.

65 F 216. \$5 Monthly..... 89.50

H. H. SMITH TEST

LEADS AND PRODS

Highest quality. Extra-flexible, rubber-covered kinkless wire, 50" long, 1 red prod, 1 black prod. Shpg. wt., 4 oz.

611 TEST LEAD KIT. 5" prods; insulated banana bands and needle tips. Spade plugs, alligator clips, phone tips fit banana plug end.

9 F 973..... 1.80

698 SLIM JIMS. Long phone tips, meter plugs.

9 F 570..... PER PAIR 1.14

618 STRETCH. No-kink-no-tangle 9" coil extends to 6'. 6" tenite prod handles. Pointed phone tips.

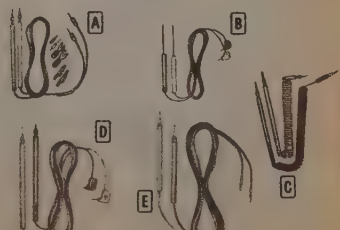
69 F 977..... PER PAIR 2.91

625 METER TEST LEADS. 5 1/4" prods, phone tips.

69 F 956..... PER PAIR 1.35

600 SOLDERLESS TIP TEST LEADS. With 5" pointed phone tips on meter end. 50" kink-free leads.

69 F 950..... PER PAIR 87¢



Bell & Howell Zoom Cameras, Projectors

COMPLETE HOME MOVIE OUTFIT

Loaded with Automatic Features and Quality Movie-Making Extras

\$199⁹⁵ \$10 monthly

COMPLETE 8MM MOVIE OUTFIT

- 310F Camera Has 9-27mm Zoom and Electric Eye
- 256A Projector Threads Itself Automatically
- Plus Many Extras for Movie-Making Convenience

Looking for a moderately priced home movie outfit? Look no further—this Bell and Howell outfit has all you need: 310F 8mm Electric-Eye Zoom camera with pistol grip and leather carrying case; 256A 8mm automatic threading projector; 30x40" tripod screen; light bar and two 375-watt lamps; projection table; feature length cartoon; lens cleaner; and instruction booklet.

310F camera features a coated 11-element, f/1.8 zoom lens with fully automatic electric-eye control. Zoom in for close-ups, zoom out for panoramic views with 9-27mm lens. Film speeds from 5 to 40. Viewfinder always shows exactly what lens sees. Beacon to warn of insufficient light, 3-way starting button, automatic footage indicator, die-cast aluminum construction and long, 10-ft. film run on single winding.

256A projector threads film automatically in less than 3 seconds. Has still-picture and reverse controls, and automatic loop setter. 400' reel capacity for full half-hour shows. Die-cast aluminum housing serves as self-contained carrying case. Shpg. wt., 40 lbs. Shipped express only.
23 V 032-4D. \$10 Monthly..... **199.95**

NEW! Slow-Motion Zoom Projector

- "Filmovare" Zoom Lens
- Instant S-l-o-w Motion
- Threads Automatically
- Built-in Film-Splicer

\$189⁹⁵ \$10 monthly

There's No End to the Fun You Have Producing Special Effects with the New 383Y

"AUTOLOAD" 8MM MOVIE CAMERA WITH OPTRONIC EYE

\$229⁹⁵

less pistol grip

NEW "AUTOLOAD" 418 CAMERA

Just load conventional 8mm reel into cartridge supplied, and insert cartridge into camera. After shooting 25 ft., just turn over cartridge—no need to remove film and re-thread. Reflex viewing shows what you're shooting. "Optronic Eye" sensing gives you the precise amount of light. Motor-driven f/1.8 dual-speed 9-27mm zoom lens responds from as close as 6'. A touch of a button lets you take slow motion—as you zoom! Runs at 16 and 48 fps plus single frame for animation. Includes Type A filter. Less pistol grip. 4 lbs. Shipped express.
24 V 865-D. \$12 Monthly..... **229.95**

"HOLSTER" CARRYING CASE. Holds 418 with pistol grip attached. 2 lbs.
24 V 853-D..... **17.95**

24 V 867-D. Pistol Grip. 12 oz..... **16.95**

NEW MODEL 383Y SLOW MOTION ZOOM 8MM PROJECTOR

Just think of it! The luxurious convenience of automatic threading, zoom projection and instant change to slow motion—plus dozens of other features—all in one economical projector! In less than 3 seconds the Bell and Howell 383Y threads itself and is ready to go. A twist of the f/1.2 "Filmovare" zoom lens captures all the detail of your telephoto close-ups—17-27mm. Then, to emphasize a scene or to create unusual effects, flip the switch to slow motion. Another switch lets you instantly stop a single frame or reverse the film for amusing effect. With the built-in splicer you can quickly join film on a larger reel or repair torn film and sprockets on the spot. Die-cast aluminum housing, self-contained case. 21 lbs. Shipped express.
24 V 866-D. \$10 Monthly..... **189.95**

New "Autoload" Cartridge Loading! Convenient Power Zoom Lens, Too

Yashica 8mm and 35mm Cameras



Combines the Convenience of Electric Eye Exposure with the Magic of Zoom Lens

\$109⁹⁵
\$6 monthly

Features Zoom Lens Powered Electrically by Separate Motor

\$139⁹⁵
\$7 monthly

Remote Control

YASHICA ELECTRIC DRIVE 8MM ZOOM CAMERA

With the "U-Matic," there's no winding—just touch a button to "roll" as electric eye automatically adjusts for light changes. Precision Yashinon reflex f/1.8 zooms from 9mm wide angle to 28mm close-ups—stays in sharp focus 1/8" to infinity. Through-the-lens view—prevents parallax errors. Rewind and footage counter permit lap-solves, trick effects. 12, 16 and 24 fps. Manual over-ride of "eye," battery-addition indicator, adjustable eyepiece. ASA 10-40. Spool loading. With batteries, pistol grip, wrist strap, 16' remote control cord. From Japan. Shpg. wt., 6 lbs. Shipped express.

V 648-D. \$6 Monthly.... 109.95

YASHICA 8U-P ALL-ELECTRIC 8MM POWER ZOOM CAMERA

Just point the 8U-P and shoot—it's electrically operated by 2 separate motors, no winding. Push button for full power 28mm zoom close-ups or 9mm panoramic shots. Super-sensitive, cadmium sulphide exposure meter electrically sets Yashinon reflex f/1.8 zoom lens. Reflex viewing assures filming of exactly what you see. ASA 10-640; film speeds: 12, 16 and 24 fps. Also has rewind key, footage counter and manual over-ride of "eye" for trick effects; battery check. Supplied complete with 16-ft. remote control cable; batteries; pistol grip; wrist strap. From Japan. Shpg. wt., 6 lbs. Shipped express.

24 V 851-D. \$7 Monthly.... 139.95



\$79⁹⁵ \$5 monthly
Yashica "Lynx" with Leather Case

35MM ELECTRIC-EYE CAMERA

Yashica "Lynx"—popular price, plus distinct pictures from your first "click"! Yashinon 45 mm f1.8 color-corrected lens. Coupled rangefinder-viewfinder with bright frame and parallax correction for accurate framing and focusing. Electric-eye meter adjusts for ASA ratings from 10-800. 11 shutter speeds—1 second to 1/1000 second. Single-stroke film advance automatically cocks shutter—prevents double exposures. MX flash synchronization; built-in self-timer. Leather case. From Japan. 3 lbs.

24 V 651-D. \$5 Monthly..... 79.95



\$139⁹⁵ \$7 monthly
New Yashica I-3 With Leather Case

NEW YASHICA I-3 35MM CAMERA

Whether you're professional or amateur, this camera is for you. Has a galaxy of features: Yashinon 50mm f/2 hard-coated lens with convenient screw mount for accessory lenses; new, super-sensitive cadmium sulphide exposure meter coupled with shutter speed control; self-timer and single-stroke diaphragm opening lever; instant-return focusing mirror. 9 speeds from 1/2 to 1/500, plus X and B settings. With leather case. From Japan. 3 1/2 lbs.

24 V 857-D. \$7 Monthly..... 139.95

DYNACHROME 8MM AND

DYNACHROME 8MM COLOR FILM

Dynachrome 8mm color movie film assures consistent quality by an exclusive process based on an extensive series of controlled tests. The low price you pay includes processing. 25-ft. spools. Projection time: at 16 fps, 4 min. Outdoor, ASA 10; indoor, ASA 16. 2 oz.

V 621-D. Outdoor..... EA. 2.49
V 622-D. Indoor..... EA. 2.49

NEW 35MM COLOR FILM

NEW DYNACHROME 35MM COLOR

New! Dynachrome's Micro-Tested color film that fits all 35mm still cameras. One low price includes expert processing by fully licensed film labs—alides come back mounted, ready for immediate viewing. 20 exp. per roll. Outdoor, ASA 10; indoor ASA 16. 3 oz.

24 V 868-D. Outdoor..... EA. 2.49
24 V 869-D. Indoor..... EA. 2.49

Airequipt-Superba 77A Slide Projector

FEATURING 4-WAY AUTOMATIC SLIDE CHANGING

Automatic 500-watt projector with a new remote control that focuses the lens, advances and releases the magazine. 4-way operation: change slides by remote control, by forward-reverse push-button projector, and by timer (in 2 to second intervals). Flip-out door permits single slide operation and timing with magazines in the projector. Slides are pre-heated to pre-

vent popping. 4", f/3.5 lens. Sound-slide synchronization. Accepts either 36-slide magazines, below. Metallic silver, 10 1/4 x 7 3/4 x 7 3/8". 15 lbs. Express.

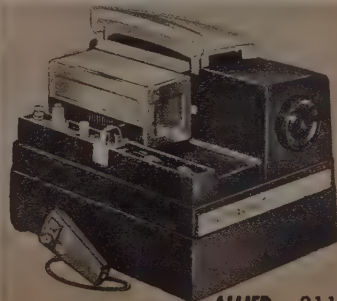
24 V 826-D. \$5 Monthly.. 84.95

24 V 827-D. Metal Magazine. 4 1/2 oz.

6 FOR 9.95..... EACH 1.69

24 V 828-D. Plastic Vari-Mount Magazine. 4 1/2 oz. 3/3.98... EACH 1.39

\$84⁹⁵
\$5 monthly



Satisfaction Guaranteed or Your Money Back

ALLIED 311

LINCOLN® NEW CRT TESTER AND REJUVENATOR

L-550



6 Sockets, Including New Color Socket, On One Cable

\$54.95

\$5 monthly

- Rejuvenates Tubes Automatically
- Uses Well-Filtered DC on All Tests
- Compares To Units Costing Much More

New from Allied—a tester that checks and automatically rejuvenates color and black-and-white TV picture tubes without adapters and with no tube damage. Tests for inter-element shorts, cathode emission, control grid capabilities, gas and life. Automatic rejuvenation prevents accidental tube damage—RC timing circuit carefully controls rejuvenation time in welding open cathodes. Well-filtered DC on all tests provides accurate check on control grid capabilities, highly important in color TV. All 6 CRT sockets, including the 2 color types, are on 1 handy cable (supplied). 2 neon panel lamps indicate inter-element shorts. Built-in compartment holds socket cable and line cord. Detachable lid locks over entire panel to prevent damage. Has leather handle. 10x8½x5". For 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

39 A 987-D. \$5 Monthly..... **54.95**

TRANSISTORIZED IGNITION SYSTEM FOR AMERICAN AND FOREIGN CARS



Was **\$24.95** Save **\$5.00**

- Increases Engine Power Up To 20%
- Increases Points Life From 50,000 to 100,000 Miles

\$19.95

\$5 monthly

Modernize your automobile, truck or boat now, with all the advantages that this transistor ignition system has to offer. Relieves distributor points of high current load, prevents arcing and pitting—even eliminates the need for a condenser! Increases your engine's power up to 20%; gives higher spark voltage, too! The result: timing adjustments are rarely needed; points and plugs last up to 100,000 miles; faster starts in hot or cold weather; improved fuel economy, speed and smoother acceleration under all driving conditions. Complete, ready-to-install system includes: a Bendix transistor, ignition coil, aluminum heat sink for rapid heat dissipation, voltage resistor (for 12-volt systems) and easy instructions. You can install it yourself in minutes, using only simple hand tools. For virtually all American and foreign cars; any auto with 6 or 12-volt negative ground electrical system. Shpg. wt., 3½ lbs.

39 A 882-D. \$5 Monthly..... **19.95**

KINEMATIX

Sensational New "IMP II" FM Wireless Mikes!

OPEN A WORLD OF PRACTICAL USES!



Used with Any FM Radio or Tuner For Paging or P.A.



Remote Tape Recording



Business or Club Meetings



Security and Surveillance

as low as
\$39.95 \$5 monthly

- Use with Any FM Radio or Tuner
- Transmits Clearly Up To 150'
- Amazingly Small—Fits Pocket!
- Super-Sensitive Built-In Micro
- Clear, Crisp Sound Quality
- Sturdy Chrome-Plated Case

IMP II 222. New transistorized, FM transmitter and mike, easily concealed in shirt pocket or cigarette box. No bothersome wires. Clear, adjustable 88-108 mc signal up to 150' to any type of FM receiver or tuner. Feed through FM radio or tuner to P.A. amplifier for group activities. Transmits from any room to a centrally located FM radio and tape recorder. Also serves as a baby-minder, a guard against prowlers, a home or office paging device. Perfect for investigative work, surveys—hundreds of other uses. Approved by FCC. Has input for optional external mike. 3x2¾x1½". With wire antenna, tuning tool and leather case. Requires 1 battery, at right. 1 lb.

73 RC 254. \$5 Monthly..... **49.95**

73 RC 255. IMP II 221. Less mike. Jack for low imp. mike. 1 lb..... **39.95**
73 RC 256. IMP/CM 223. At left, but with volume-controlled contact mike for electric guitars, etc. 1 lb..... **59.95**
73 RC 260. 335 Accessory Mike. With Lavaliere cord and desk stand. 1 lb..... **9.95**
73 RC 257. 332 Duplexer. Allows using 2 "rabbit-ear" antennas on tuner. 1 lb. **12.95**
73 RC 258. 333 Transistorized High-Low Impedance Mike Matcher. With replaceable battery. 8 oz..... **9.95**
73 RC 259. 334 3-Channel Trans. Mixer Amp. With replaceable batt. 1 lb..... **19.95**
51 891. Package of Batteries. For IMP units. 2 per pkg. 2 oz..... **PER PKG. 2.10**



RCA Quality Receiving Tubes

THE WORLD'S GREAT NAME IN ELECTRONIC TUBES

Receiving Tubes May be Assorted for Quantity-Price Savings

- Always a Fresh Stock Available for Quick Delivery to You
- All Tubes Are Guaranteed for One Full Year
- Get the Tubes You Need, Right Now—Use Your Credit Fund

The world's largest stocks of factory-fresh, premium-quality RCA receiving tubes are maintained for your convenience by Allied. In addition to prompt delivery, you can be sure of complete satisfaction when you purchase your receiving tubes from Allied. We will replace any tube that does not give efficient performance within 12 months from date of purchase. This does not apply to vacuum tubes. *Indicates tubes not made by RCA—other well-known brands are supplied. Purchasers of tubes in quantities of 100 or more, may obtain RCA's Receiving Tube Manual at no extra cost—ask for Stock No. 37 K 575. Av. shpg. wt. per tube, 4 oz.; 10 tubes, 2½ lbs.

Act
Now!



Take advantage of our liberal, convenient Credit Fund Plan—purchase all of the receiving tubes you need from Allied on this dollar-stretching Easy Pay system. Let's you enjoy quantity-price savings, and you can take up to 24 months to pay. Buy what you want with no down payment!

Tube Type	EA. in Quantities of:			Tube Type	EA. in Quantities of:			Tube Type	EA. in Quantities of:		
	1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More
184/6FG6	1.63	1.46	1.30	3BN6	1.93	1.73	1.54	5BK7A	1.70	1.53	1.36
184	1.20	1.08	.96	3BU8	1.68	1.51	1.34	5BQ7A	2.03	1.82	1.62
14G	1.30	1.17	1.04	3BY6	1.45	1.31	1.16	5BR8	1.83	1.64	1.46
3	3.28	2.95	2.62	3BZ6	1.15	1.04	.92	5BT8	1.65	1.49	1.32
5GT	2.13	1.91	1.70	3CB6	1.15	1.04	.92	5BW8	1.70	1.53	1.36
7GT	2.88	2.59	2.30	3CE5	1.18	1.06	.94	5CG8	1.68	1.51	1.34
D2	1.50	1.35	1.20	3CF6	1.35	1.21	1.08	5CL8A	1.75	1.58	1.40
X2	1.53	1.37	1.22	3CS6	1.33	1.19	1.06	5CM8	1.90	1.71	1.52
3GT	1.45	1.31	1.16	3CY5	1.63	1.46	1.30	5CG8	2.03	1.82	1.62
5GT	2.65	2.39	2.12	3DG4	1.83	1.64	1.46	5CZ5	2.18	1.96	1.74
N5	1.83	1.64	1.46	3DK6	1.20	1.08	.96	5DH8	2.55	2.30	2.04
3GT/1B3GT	1.45	1.31	1.16	3DT6A	1.10	.99	.88	5DJ4	1.33	1.19	1.06
5GT	2.08	1.87	1.66	3EA5	1.43	1.28	1.14	5EA8	1.68	1.51	1.34
3	1.45	1.31	1.16	3EH7*	1.58	1.42	1.26	5EU8	1.68	1.51	1.34
6	1.45	1.31	1.16	3EJ7*	1.58	1.42	1.26	5EW6	1.33	1.19	1.06
A6	3.40	3.06	2.72	3ER5	1.75	1.58	1.40	5FG7	1.38	1.24	1.10
B4	3.10	2.79	2.48	3FS5*	1.53	1.37	1.22	5FV8	1.58	1.42	1.26
C6	4.33	3.90	3.46	3GK5	2.03	1.82	1.62	5GH8	1.98	1.78	1.58
E3	4.15	3.74	3.32	3GS8/3BU8	1.55	1.40	1.24	5GM6	1.33	1.19	1.06
3	3.50	3.15	2.80	3LF4	3.20	2.88	2.56	5GX6	1.33	1.19	1.06
G5	3.40	3.06	2.72	3Q4	1.78	1.60	1.42	5J6	1.43	1.28	1.14
H4	4.03	3.63	3.22	3QG5T	2.83	2.54	2.26	5KE8	2.53	2.27	2.02
N5	4.08	3.67	3.26	3S4	1.60	1.44	1.28	5KT4	6.05	5.45	4.84
12A	2.33	2.09	1.86	3U4	1.25	1.13	1.00	5T8	1.83	1.64	1.46
15GT	2.60	2.34	2.08	4AU6	1.18	1.06	.94	5U4G	1.05	.95	.84
35	1.53	1.37	1.22	4AV6	.93	.83	.74	5U4GB	1.05	.95	.84
12A*	1.55	1.40	1.24	4BC5	1.18	1.06	.94	5U8	1.65	1.49	1.32
15	2.18	1.96	1.74	4BC8	2.03	1.82	1.62	5V3A	1.93	1.73	1.58
15	1.45	1.31	1.16	4BL8	1.28	1.15	1.02	5V4GA	1.90	1.71	1.52
14	1.45	1.31	1.16	4BN6	1.93	1.73	1.54	5V6GT	1.20	1.08	.96
J5	1.45	1.31	1.16	4BQ7A	2.00	1.80	1.60	5X4G	1.68	1.51	1.34
J7	1.33	1.19	1.06	4BS8	1.93	1.73	1.54	5X8	1.73	1.55	1.38
1	2.93	2.63	2.34	4BU8	1.68	1.51	1.34	5Y3GT	.88	.79	.70
J2	1.05	.95	.84	4BZ6	1.13	1.01	.90	5Y4GA	1.30	1.17	1.04
K2A	1.53	1.37	1.22	4BZ7	2.03	1.82	1.62	5Y4GT	1.33	1.19	1.06
K2B	1.53	1.37	1.22	4CB6	1.15	1.04	.92	5Z3	1.65	1.49	1.32
AF4B	1.55	1.40	1.24	4CS6	1.18	1.06	.94	5Z4	4.18	3.76	3.34
AH2	1.60	1.44	1.28	4CY5	1.43	1.28	1.14	6A7	4.25	3.82	3.40
AS2	1.60	1.44	1.28	4DE6	1.33	1.19	1.06	6A8	3.43	3.08	2.74
BN4A	1.28	1.15	1.02	4DT6A	1.13	1.01	.90	6A8G	4.30	3.87	3.44
D4 Nuovistor	2.23	2.00	1.78	4EH7	1.90	1.71	1.52	6A8GT	4.30	3.87	3.44
CY5	1.53	1.37	1.22	4EJ7	1.90	1.71	1.52	6AB4	1.08	.97	.88
D54 Nuovistor	2.23	2.00	1.78	4ES8	2.30	2.07	1.84	6AB5/6N5	4.03	3.63	3.22
D4 Nuovistor	3.13	2.81	2.50	4EW6	1.33	1.19	1.06	6AB7	4.13	3.72	3.30
D24	2.03	1.82	1.62	4GK5	2.08	1.87	1.66	6AC5GT	3.13	2.81	2.50
EN5	1.70	1.53	1.36	4GS8/4BU8	1.55	1.40	1.24	6AC7	2.75	2.48	2.20
ER5	1.53	1.37	1.22	4GZ5	1.25	1.13	1.00	6AD7G	4.70	4.23	3.76
FH5	1.53	1.37	1.22	4HM6	1.20	1.08	.96	6AF3	1.45	1.31	1.16
FS5	1.55	1.40	1.24	4HS8	1.60	1.44	1.28	6AF4	2.00	1.80	1.60
GK5	2.03	1.82	1.62	4JC6	1.75	1.58	1.40	6AF4A	2.00	1.80	1.60
A2	2.43	2.18	1.94	4JD6	1.75	1.58	1.40	6AF6G	3.10	2.79	2.48
A3	1.70	1.53	1.36	5AM8	1.78	1.60	1.42	6AF11	2.50	2.25	2.00
AF4A	2.03	1.82	1.62	5AN8	2.00	1.80	1.60	6AG5	1.38	1.24	1.10
AL5	1.03	.92	.82	5AQ5	1.18	1.06	.94	6AG7	3.10	2.79	2.48
AT2	1.60	1.44	1.28	5AS4A	1.65	1.49	1.32	6AH4GT	1.73	1.55	1.38
AU6	1.18	1.06	.94	5AS8	2.08	1.87	1.66	6AH6	2.35	2.12	1.88
AV6	.95	.86	.76	5AT4	1.83	1.64	1.46	6AK5	2.20	1.98	1.76
AW3	1.70	1.53	1.36	5AU4	1.70	1.53	1.36	6AL3	1.48	1.33	1.18
B2	4.93	4.44	3.94	5AV8	2.03	1.82	1.62	6AL5	.93	.83	.74
BA6	1.25	1.13	1.00	5AW4	1.40	1.26	1.12	6AL7GT	2.88	2.59	2.30
BC5	1.18	1.06	.94	5AZ4	2.83	2.54	2.26	6AL11	2.20	1.98	1.76
BE6	1.13	1.01	.90	5B8	2.65	2.39	2.12				
BN4A	1.53	1.37	1.22	5BC3 Novar	1.15	1.04	.92				
				5BE8	1.65	1.49	1.32				

TUBES CONTINUED ON NEXT PAGE

Purchase Your Receiving Tubes on Allied's Convenient Credit Fund Plan



RCA Receiving Tubes (Cont'd)

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

Tube Type	EA. In Quantities of:			Tube Type	EA. In Quantities of:			Tube Type	EA. In Quantities of:		
	1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More
6AM4	2.95	2.66	2.36	6CB6A	1.13	1.01	.90	6F7	5.85	5.27	4.65
6AM8A	1.73	1.55	1.38	6CD6GA	2.90	2.61	2.32	6F8G	4.48	4.03	3.58
6AN4	3.28	2.95	2.62	6CE5	1.18	1.06	.94	6FA7	1.45	1.31	1.18
6AN8A	2.00	1.80	1.60	6CF6	1.28	1.15	1.02	6FD7	2.53	2.27	2.02
6AQ5A	1.08	.97	.86	6CG7	1.23	1.10	.98	6FG6	Use EM84/6FG6		
6AQ6	1.30	1.17	1.04	6CG8A	1.65	1.49	1.32	6FG7	1.45	1.31	1.18
6AQ7GT	2.00	1.80	1.60	6CH8	2.60	2.34	2.08	6FH5	1.45	1.31	1.18
6AQ8	1.58	1.42	1.26	6CK4	1.50	1.35	1.20	6FH8	1.83	1.64	1.46
6AR5	1.33	1.19	1.06	6CL6	1.88	1.69	1.50	6FJ7	1.83	1.64	1.46
6AR11	2.18	1.96	1.74	6CL8A	1.68	1.51	1.34	6FM7	1.73	1.55	1.38
6AS5	1.45	1.31	1.16	6CM6	1.65	1.49	1.32	6FM8	1.50	1.35	1.20
6AS8	1.90	1.71	1.52	6CM7	1.45	1.31	1.16	6FQ5A	2.03	1.82	1.62
6AS11	2.50	2.25	2.00	6CM8	2.13	1.91	1.70	6FQ7	1.15	1.04	.92
6AT6	.95	.86	.76	6CN7	1.45	1.31	1.16	6FS5	1.53	1.37	1.22
6AT8A	1.90	1.71	1.52	6CQ4	1.60	1.44	1.28	6FV6	1.98	1.78	1.58
6AU4GTA	1.80	1.62	1.44	6CQ8	1.75	1.58	1.40	6FV8	1.58	1.42	1.26
6AU5GT	2.15	1.94	1.72	6CR6	1.20	1.08	.96	6FV8A	1.58	1.42	1.26
6AU6A	1.05	.95	.84	6CS6	1.33	1.19	1.06	6FW5	2.05	1.85	1.64
6AU8A	1.90	1.71	1.52	6CS7	1.48	1.33	1.18	6FW8	5.08	4.57	4.06
6AV5GA	2.33	2.09	1.86	6CU5	1.33	1.19	1.06	6FY7	1.70	1.53	1.36
6AV6	.83	.74	.66	6CU6	Use 6BQ6GTB/6CU6			6G6G	3.60	3.24	2.88
6AW8A	1.85	1.67	1.48	6CU8	2.18	1.96	1.74	6G11	2.18	1.96	1.74
6AX3	1.35	1.21	1.08	6CW4 Nuvistor	2.23	2.00	1.78	6GC5	1.83	1.64	1.46
6AX4GTB	1.33	1.19	1.06	6CX8	1.93	1.73	.54	6GE5	2.05	1.85	1.64
6AX5GT	1.55	1.40	1.24	6CY5	1.43	1.28	1.14	6GF5	1.85	1.67	1.48
6AX8	1.85	1.67	1.48	6CY7	1.60	1.44	1.28	6GF7 Novar	2.28	2.05	1.82
6AY3 Novar	1.38	1.24	1.10	6CZ5	2.05	1.85	1.64	6GH8	2.28	2.05	1.82
6AZ8	2.78	2.50	2.22	6D6	3.90	3.51	3.12	6GJ5 Novar	2.28	2.05	1.82
6B8	3.65	3.29	2.92	6DA4	1.45	1.31	1.16	6DJ7	1.80	1.62	1.44
6B10	1.75	1.58	1.40	6DB5	2.65	2.39	2.12	6DK5	2.03	1.82	1.62
6BA3 Novar	1.38	1.24	1.10	6DC6	1.70	1.53	1.36	6KK6	1.45	1.31	1.16
6BA6	1.00	.90	.80	6DC8	1.60	1.44	1.28	6GL7	2.55	2.30	2.04
6BA7	2.98	2.68	2.38	6DE4	1.43	1.28	1.14	6GM6	1.20	1.08	.96
6BA8A	1.93	1.73	1.54	6DE6	1.28	1.15	1.02	6GN8	1.98	1.78	1.58
6BA11	1.85	1.67	1.48	6DE7	1.70	1.53	1.36	6GT5 Novar	2.10	1.89	1.68
6BC4	2.68	2.41	2.14	6DGGT	1.28	1.15	1.02	6GU7	1.48	1.33	1.18
6BC5	1.18	1.06	.94	6DK6	1.18	1.06	.94	6GV5	2.20	1.98	1.76
6BC7	1.90	1.71	1.52	6DM4	1.43	1.28	1.14	6GV8	1.65	1.49	1.32
6BC8	2.00	1.80	1.60	6DN6	3.73	3.36	2.98	6GW6	2.08	1.87	1.66
6BD6	1.23	1.10	.98	6DN7	1.75	1.58	1.40	6GX6	1.25	1.13	1.00
6BE3	1.50	1.35	1.20	6DQ4	1.33	1.19	1.06	6GY5	1.25	1.13	1.00
6BE6	1.10	.99	.88	6DQ5	4.18	3.76	3.34	6GY8	1.90	1.71	1.52
6BF5	1.78	1.60	1.42	6DQ6B	2.08	1.87	1.66	6H6	2.00	1.80	1.60
6BF6	.95	.86	.76	6DR4*	.93	.83	.74	6HB6	1.55	1.40	1.24
6BG6G	3.23	2.90	2.58	6DR7	1.83	1.64	1.46	6HE5	1.98	1.78	1.58
6BH3 Novar	1.48	1.33	1.18	6DS4 Nuvistor	2.23	2.00	1.78	6HF5	3.88	3.49	3.10
6BH6	1.35	1.21	1.08	6DS5	1.75	1.58	1.40	6HF8	1.98	1.78	1.58
6BH8	1.83	1.64	1.46	6DT5	1.63	1.46	1.30	6HG8	2.18	1.96	1.74
6BJ6	1.30	1.17	1.04	6DT6A	.08	.97	.86	6HJ8	1.65	1.49	1.32
6BJ7	1.58	1.42	1.26	6DT8	1.90	1.71	1.52	6HL8	1.63	1.46	1.30
6BJ8	1.75	1.58	1.40	6DV4 Nuvistor	3.13	2.81	2.50	6HR6	1.45	1.31	1.16
6BK4	4.00	3.60	3.20	6DW4 Novar	1.85	1.67	1.48	6HS6	1.45	1.31	1.16
6BK5	1.85	1.67	1.48	6DW5	2.03	1.82	1.62	6HS8	1.60	1.44	1.28
6BK7B	1.70	1.53	1.36	6DX8	1.55	1.40	1.24	6HZ6	1.33	1.19	1.06
6BL7GTA	2.10	1.89	1.68	6DZ4	2.00	1.80	1.60	6HZ8*	2.18	1.96	1.74
6BL8	1.98	1.78	1.58	6DZ7	4.23	3.81	3.38	6J5	1.83	1.64	1.46
6BM8*	1.53	1.37	1.22	6E5	2.55	2.30	2.04	6JS5GT	1.83	1.64	1.46
6BN4A	1.33	1.19	1.06	6EA5	1.90	1.71	1.52	6J6A	1.40	1.26	1.12
6BN6	1.60	1.44	1.28	6EA7	1.90	1.71	1.52	6J7	2.48	2.23	1.98
6BN8	1.53	1.37	1.22	6EA8	1.60	1.44	1.28	6J7GT	2.90	2.61	2.32
6BQ5	1.20	1.08	.96	6EB8	2.10	1.89	1.68	6JB6 Novar	2.28	2.05	1.82
6BQ6GTB/6CU6	2.18	1.96	1.74	6EH5	1.53	1.37	1.22	6JC6	1.75	1.58	1.40
6BQ7A	1.98	1.78	1.58	6EH7	2.03	1.82	1.62	6JC8	1.53	1.37	1.22
6BR8A	1.90	1.71	1.52	6EJ5	1.58	1.42	1.26	6JES Novar	4.50	4.05	3.60
6BS3 Novar	1.75	1.58	1.40	6EJ7	1.90	1.71	1.52	6JE3	1.98	1.78	1.58
6BS8	1.88	1.69	1.50	6EM5	1.70	1.53	1.36	6JH6	1.30	1.17	1.04
6BU8	1.55	1.40	1.24	6EM7	2.55	2.30	2.04	6JH8	2.18	1.96	1.74
6BV8	1.58	1.42	1.26	6EQ7	1.45	1.31	1.16	6JK8	1.70	1.60	1.48
6BW4	1.45	1.31	1.16	6ER5	1.90	1.71	1.52	6JT8	2.13	1.91	1.70
6BW8	1.75	1.58	1.40	6ES5	1.53	1.37	1.22	6JU8	1.60	1.44	1.28
6BX7GT	2.18	1.96	1.74	6ES8	2.90	2.61	2.32	6KG6GT	1.33	1.19	1.06
6BY5GA	2.55	2.30	2.04	6EU7	1.35	1.21	1.08	6K7	2.48	2.23	1.98
6BY6	1.33	1.19	1.06	6EU8	1.65	1.49	1.32	6K7GT	2.48	2.23	1.98
6BY8J	1.33	1.19	1.06	6EV5	1.50	1.35	1.20	6K8	3.75	3.38	3.00
6BZ6	1.13	1.01	.90	6EV7	1.45	1.31	1.16	6K11	1.93	1.73	1.54
6BZ7	2.00	1.80	1.60	6EW6	1.25	1.13	1.00	6KA8	2.03	1.82	1.62
6BZ8	2.23	2.00	1.78	6EW7 Novar	2.90	2.61	2.32	6KD8	1.33	1.19	1.06
6C4	.93	.83	.74	6EX6	3.98	3.58	3.18	6KL8	1.38	1.24	1.10
6C5	2.13	1.91	1.70	6EY6	1.70	1.53	1.36	6KM8	1.70	1.53	1.36
6C6	4.15	3.74	3.32	6EZ5	1.80	1.62	1.44	6KT8	1.63	1.46	1.30
6C8G	4.43	3.99	3.54	6EZ8	1.90	1.71	1.52	6L6	4.30	3.87	3.44
6C9	2.90	2.61	2.32	6F5	2.30	2.07	1.84	6L6GC	2.18	1.96	1.74
6CA4	1.05	.95	.84	6F6	2.93	2.63	2.34	6L7	3.68	3.31	2.94
6CA5	1.58	1.42	1.26	6F6G	2.93	2.63	2.34	6N5	Use 6AB5/6N5		
6CB5A	4.28	3.85	3.42	6F6GT	2.93	2.63	2.34	6N7	2.50	2.25	2.00

RCA Receiving Tubes

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES



Extra Savings When You Buy More Than 9 Tubes

The first price column (1 to 9), is for orders of less than 10 tubes. If you buy 10 or more tubes of any one type or assorted types (up to a total of 49), use the

prices in the second price column (10 to 49). For 50 tubes and over, use the third price column (50 or More). Take advantage of these quantity prices and save!

Tube Type	EA. in Quantities of:			Tube Type	EA. in Quantities of:			Tube Type	EA. in Quantities of:		
	1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More
7GT	2.63	2.36	2.10	8BA8A	1.83	1.64	1.46	12C8	4.85	4.37	3.88
7	2.65	2.39	2.12	8BH8	1.78	1.60	1.42	12CA5	1.43	1.28	1.14
7GT	2.83	2.54	2.26	8BN8	1.63	1.46	1.30	12CN5	1.73	1.55	1.38
11	1.75	1.58	1.40	8BQ5	1.45	1.31	1.16	12CR6	1.38	1.24	1.10
A7GT	2.73	2.45	2.18	8CG7	1.25	1.13	1.00	12CT8	2.13	1.91	1.70
4A	1.23	1.10	.98	8CM7	1.45	1.31	1.16	12CU5/12C5	1.23	1.10	.98
7	3.60	3.24	2.88	8CN7	1.40	1.26	1.12	12CU6	Use 12BQ6GTB/12CU6		
8GT	2.20	1.98	1.76	8CS7	1.48	1.33	1.18	12CX6	1.45	1.31	1.16
A7	2.15	1.94	1.72	8CX8	2.18	1.96	1.74	12D4	1.45	1.31	1.16
A7GT	2.15	1.94	1.72	8EB8	2.00	1.80	1.60	12DB5	1.38	1.24	1.10
B7Y	3.15	2.84	2.52	8EM5	1.73	1.55	1.38	12DE8	1.65	1.49	1.32
C5	2.25	2.03	1.80	8ET7	2.20	1.98	1.76	12DK6	1.20	1.08	.96
F5GT	1.85	1.67	1.48	8FQ7	1.38	1.24	1.10	12DK7	1.48	1.33	1.18
F7	1.60	1.44	1.28	8GN8	1.98	1.78	1.58	12DL8	2.90	2.61	2.32
F5GT	3.13	2.81	2.50	8KA8	2.05	1.85	1.64	12DM4A*	1.43	1.28	1.14
G7	2.30	2.07	1.84	9AU7	1.40	1.26	1.12	12DQ6B	2.10	1.89	1.68
H7	2.33	2.09	1.86	9BR7	1.68	1.51	1.34	12DQ7	1.73	1.55	1.38
J7	2.08	1.87	1.66	9CL8	1.58	1.42	1.26	12DS7	1.98	1.78	1.58
J7GT	2.08	1.87	1.66	9U8A	1.65	1.49	1.32	12DT5	1.53	1.37	1.22
K7	1.98	1.78	1.58	10C8	2.13	1.91	1.70	12DT8	1.90	1.71	1.52
K7GT	2.10	1.89	1.68	10DE7	1.70	1.53	1.36	12DU7	2.03	1.82	1.62
L7GT	1.75	1.58	1.40	10DR7	2.18	1.96	1.74	12DV8	1.78	1.60	1.42
N7GTB	1.30	1.17	1.04	10DX8	1.63	1.46	1.30	12DW7	1.63	1.46	1.30
Q7	1.88	1.69	1.50	10EG7	2.30	2.07	1.84	12DW8*	1.78	1.60	1.42
Q7GT	1.90	1.71	1.52	10EM7	2.38	2.14	1.90	12DY8	2.30	2.07	1.84
R7	1.95	1.76	1.56	10GN8	1.90	1.71	1.52	12DZ6	1.38	1.24	1.10
S7	2.75	2.48	2.20	10HF8	2.33	2.09	1.86	12EA6	1.33	1.19	1.06
T4	2.73	2.45	2.18	11AR11	2.18	1.96	1.74	12EC8	1.80	1.62	1.44
T8A	1.70	1.53	1.36	11CY7	1.63	1.46	1.30	12ED5	1.43	1.28	1.14
J5	2.78	2.50	2.22	11JE8	2.03	1.82	1.62	12EG6	1.60	1.44	1.28
J8A	1.65	1.49	1.32	11KV8	3.13	2.81	2.50	12EH5	1.45	1.31	1.16
J3A	2.28	2.05	1.82	12ABG7	4.43	3.99	3.54	12EL6	1.45	1.31	1.16
V6	3.38	3.04	2.70	12AB5	1.75	1.58	1.40	12EN6	1.00	.90	.80
6GTA	1.10	.99	.88	12AC6	.90	1.10	.99	12EQ7	1.45	1.31	1.16
W4GT	1.20	1.08	.96	12AD6	1.20	1.08	.96	12F8	1.53	1.37	1.22
W6GT	1.43	1.28	1.14	12AEG6	1.20	1.08	.96	12FK6	1.15	1.04	.92
K5GT	1.83	.74	.66	12AF7	1.88	1.69	1.50	12FM6	1.15	1.04	.92
K8	1.05	.95	.84	12AF3	1.45	1.31	1.16	12FQ8	1.60	1.44	1.28
Y6G	1.58	1.42	1.26	12AF6	1.38	1.24	1.10	12FR8	2.40	2.16	1.92
Y6G	2.15	1.94	1.72	12AH7GT	2.78	2.50	2.22	12FV7	1.83	1.64	1.46
Y6GA	2.15	1.94	1.72	12AJ6	1.28	1.15	1.02	12FX6	1.33	1.19	1.06
Z4	Use 84/6Z4			12AL5	.95	.86	.76	12FX8	2.03	1.82	1.62
A4	3.75	3.38	3.00	12AL8	3.28	2.95	2.62	12FX8A	2.03	1.82	1.62
A5	3.00	2.70	2.40	12AL11	2.23	2.00	1.78	12GA6	1.28	1.15	1.02
A6	3.70	3.33	2.96	12AQ5	1.30	1.17	1.04	12GC8	2.10	1.89	1.68
A7	3.78	3.40	3.02	12AT6	.93	.83	.74	12GE5	1.90	1.71	1.52
A8	4.13	3.72	3.30	12AT7	1.53	1.37	1.22	12GN7	2.08	1.87	1.66
AF7	3.30	2.97	2.64	12AU6	1.08	.97	.86	12GT5 Novar	2.13	1.91	1.70
AG7	4.20	3.78	3.36	12AU7A	1.23	1.10	.98	12H6	1.98	1.78	1.58
AH7	3.20	2.88	2.56	12AUSGA	2.03	1.82	1.62	12J5GT	2.18	1.96	1.74
AUT	1.30	1.17	1.04	12AV6	.83	.74	.66	12J7GT	3.70	3.33	2.96
B4	3.60	3.24	2.88	12AV7	1.83	1.64	1.46	12J8	2.30	2.07	1.84
B5	4.43	3.99	3.54	12AW6	1.65	1.49	1.32	12JB6 Novar	3.00	2.70	2.40
B6	2.80	2.52	2.24	12AX3	1.38	1.24	1.10	12K5	1.83	1.64	1.46
B7	4.05	3.65	3.24	12AX4GTB	1.35	1.21	1.08	12K7GT	3.50	3.15	2.88
B8	2.98	2.68	2.38	12AX7A	1.28	1.15	1.02	12K8	4.35	3.92	3.48
C5	1.75	1.58	1.40	12AY3 Novar	1.40	1.26	1.12	12KL8	1.30	1.17	1.04
C6	3.88	3.49	3.10	12AY7	2.38	2.14	1.90	12L6GT	1.38	1.24	1.10
C7	1.80	1.62	1.44	12AZ7A	1.38	1.24	1.10	12Q7GT	2.90	2.61	2.32
E7	3.35	3.02	2.68	12BA4	1.43	1.28	1.14	12R5	1.55	1.40	1.24
EY6	1.58	1.42	1.26	12BA6	.83	.74	.66	12SA7	2.15	1.94	1.72
F7	3.98	3.58	3.18	12BA7	2.98	2.68	2.38	12SA7GT	2.15	1.94	1.72
F8	4.38	3.94	3.50	12BD6	1.23	1.10	.98	12SC7	2.75	2.48	2.20
G7	3.20	2.88	2.56	12BE6	.88	.79	.70	12SF5	2.05	1.85	1.64
H7	3.20	2.88	2.56	12BF6	1.10	.99	.88	12SF7	3.30	2.97	2.64
J7	3.63	3.27	2.90	12BHTA	1.53	1.37	1.22	12SG7	2.33	2.09	1.86
K7	4.30	3.87	3.44	12BK5	2.00	1.80	1.60	12SH7	2.88	2.59	2.30
N7	3.78	3.40	3.02	12BL6	1.33	1.19	1.06	12SJ7	2.10	1.89	1.68
Q7	3.10	2.79	2.48	12BQ6GTB/12CU6	2.23	2.00	1.78	12SK7	1.98	1.78	1.58
R7	3.33	2.99	2.66	12BR7	1.60	1.44	1.28	12SK7GT	1.98	1.78	1.58
U7	2.45	2.21	1.96	12BS3 Novar	1.78	1.60	1.42	12SL7GT	1.88	1.69	1.50
X7	3.50	3.15	2.80	12BV7	1.75	1.58	1.40	12SN7GTA	1.35	1.21	1.08
X7	4.05	3.65	3.24	12BW4	1.45	1.31	1.16				
Y4	3.58	3.22	2.86	12BY7A	1.60	1.44	1.28				
Z4	3.45	3.11	2.76	12BZ6	1.13	1.01	.90				
AU8	2.03	1.82	1.62	12BZ7	2.20	1.98	1.76				
AW8A	1.85	1.67	1.48	12C5	Use 12CU5/12C5						
B10	1.78	1.60	1.42								

TUBES CONTINUED ON NEXT PAGE



RCA Receiving Tubes—Argos Tube Caddies

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

Tube Type	EA. in Quantities of:			Tube Type	EA. in Quantities of:			Tube Type	EA. in Quantities of:		
	1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More		1 to 9	10 to 49	50 or More
12SQ7	1.88	1.69	1.50	18FY6A	.95	.86	.76	35Y4	2.40	2.16	1.92
12SQ7GT	1.88	1.69	1.50	18GD6A	1.08	.97	.86	35Z3	2.50	2.25	2.00
12SR7	2.73	2.45	2.18	19AU4	1.90	1.71	1.52	35Z4GT	1.35	1.21	1.08
12U7	1.33	1.19	1.06	19AU4GTA	1.90	1.71	1.52	35Z5GT	.93	.83	.74
12V6GT	1.45	1.31	1.16	19BG6A	3.25	2.93	2.60	36AM3B	.80	.72	.64
12W6GT	1.60	1.44	1.28	19CL8A	1.75	1.58	1.40	41	2.90	2.61	2.32
12X4	.95	.86	.76	19EA4	1.70	1.53	1.36	42	2.58	2.32	2.06
13CW4 Nuvistor	2.23	2.00	1.78	19HR6	1.10	1.23	1.32	43	3.80	3.42	3.04
13DE7	1.48	1.33	1.18	19HS6	1.28	1.15	1.02	47	4.58	4.12	3.66
13DR7	1.70	1.53	1.36	19HV8	1.90	1.71	1.52	50A5	3.13	2.81	2.50
13EM7	2.58	2.32	2.06	19J6	1.98	1.78	1.58	50B5	1.38	1.24	1.10
13FD7	2.43	2.18	1.94	19JN8	1.60	1.44	1.28	50C5	1.08	.97	.86
13GB5	1.98	1.78	1.58	19T8	1.75	1.58	1.40	50DC4	.95	.86	.76
13GF7 Novar	2.30	2.07	1.84	19X8	2.18	1.96	1.74	50EH5	1.15	1.04	.92
13J10	2.68	2.41	2.14	20EZ7	1.83	1.64	1.46	50FE5	2.18	1.96	1.74
14A7	2.95	2.66	2.36	21QV5	2.45	2.21	1.96	50HK6	1.15	1.04	.92
14AF7	3.03	2.72	2.42	22B6 Novar	1.53	1.37	1.22	50FK5	1.15	1.04	.92
14B6	2.80	2.52	2.24	22DE4	1.55	1.40	1.24	50L6GT	1.28	1.15	1.02
14C7	3.30	2.97	2.64	22JG6 Novar	3.05	2.75	2.44	50X6	3.10	2.79	2.48
14F7	4.48	4.03	3.58	24A	3.30	2.97	2.64	50Y6GT	2.30	2.07	1.84
14F8	3.35	3.02	2.68	25AV5GA	2.33	2.09	1.86	50Y7GT	2.25	2.03	1.80
14GT8	1.60	1.44	1.28	25AX4GT	1.60	1.44	1.28	60FX6	1.38	1.24	1.10
14Q7	3.10	2.79	2.48	25BK5	1.83	1.64	1.46	70L7GT	5.08	4.57	4.06
14R7	3.60	3.24	2.88	25BQ6GTB/25CU6	2.33	2.09	1.86	75	3.40	3.06	2.72
15AF11	2.53	2.27	2.02	25C5	1.08	.97	.86	78	3.60	3.24	2.88
15EW6*	1.38	1.24	1.10	25CA5	1.55	1.40	1.24	80	2.10	1.89	1.68
15FY7	1.73	1.55	1.38	25CD6GB	3.05	2.75	2.44	84/6Z4	1.83	1.64	1.46
15HB6	1.65	1.49	1.32	25CU6	Use 25BQ6GTB/25CU6			117L7/117M7GT	5.08	4.57	4.06
15KY8 Novar	2.53	2.27	2.02	25DN6	3.18	2.86	2.54	117M7GT	Use 117L7/117M7GT		
17AX4GTA	1.45	1.31	1.16	25EC6	2.85	2.57	2.28	117N7GT	6.80	6.12	5.44
17AY3 Novar	1.40	1.26	1.12	25EH5	1.25	1.13	1.00	117P7GT	6.80	6.12	5.44
17BH3 Novar	1.53	1.37	1.22	25F5A	2.03	1.82	1.62	117Z3	2.18	1.96	1.74
17BQ6GTB	2.78	2.50	2.22	25L6	Use 25L6GT			117Z6GT	3.55	3.20	2.84
17BS3 Novar	1.75	1.58	1.40	25L6GT	1.33	1.19	1.06	58T9	1.88	1.69	1.50
17C9	3.08	2.77	2.46	25W4GT	1.35	1.21	1.08	58B1	3.20	2.88	2.56
17CU5	1.23	1.10	.98	25Z5	2.30	2.07	1.84	69T3	2.25	2.03	1.80
17D4	1.38	1.24	1.10	25Z6GT	1.53	1.37	1.22	70Z5	1.48	1.33	1.18
17DE4	1.70	1.53	1.36	27	2.70	2.43	2.16	70Z7A	3.30	2.97	2.64
17DM4	1.60	1.44	1.28	29GK6*	1.33	1.19	1.06	7167*	1.66	1.49	1.33
17DQ6B	2.10	1.89	1.68	32ET5A	1.28	1.15	1.02	7189	1.43	1.28	1.14
17GE5	2.08	1.87	1.66	34GD5A	1.18	1.06	.94	7199	2.03	1.82	1.62
17GJ5 Novar	2.30	2.07	1.84	35A5	3.00	2.70	2.40	7247	1.53	1.37	1.22
17GT5 Novar	2.13	1.91	1.70	35B5	1.70	1.53	1.36	7355	1.53	1.37	1.22
17GV5	2.23	2.00	1.78	35C5	1.08	.97	.86	7408	1.33	1.19	1.06
17GW6	2.13	1.91	1.70	35DZ8	1.73	1.55	1.38	7543	1.55	1.40	1.24
17H3	1.25	1.13	1.00	35EH5	1.15	1.04	.92	7591	1.48	1.33	1.18
17JB6 Novar	2.30	2.07	1.84	35GL6	1.25	1.13	1.00	7695	2.20	1.98	1.76
18A5	2.08	1.87	.86	35L6GT	1.20	1.08	.96	7868 Novar	1.83	1.64	1.46
18FW6	1.08	.97	.86	35W4	.55	.50	.44				
18FW6A	1.08	.97	.86								
18FX6A	1.18	1.06	.94								



RCA RECEIVING TUBE MANUAL

RC-21. One of the most helpful, informative books published for radio-TV servicemen. Lists characteristics and typical operating conditions of all current RCA receiving and picture tubes; their usage in various applications; and the proper installation of tubes. Also features schematic dia-

grams, graphs and curves, plus explanations of commonly encountered circuits. The most current edition is always sent. Available to you Free-of-charge when you purchase either

100 receiving tubes, or one TV picture tube.
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ARGOS SERVICEMEN'S TUBE CADDIES

JUNIOR TUBE CADDY



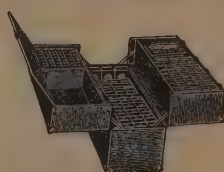
\$9.55

Type TC-201. Easy-to-carry—only two-thirds the size and weight of ordinary caddies. Perfect

for quick servicing trips. Holds up to 143 tubes with room for meters, tools, etc. "Break-open" section has cover and snap lock for keeping small parts in order. Brown vinyl covering is long-wearing and abrasion-resistant. Has clasp lock plastic carrying handle. 12½x15¼x8". Wt. 10 lbs.

87 NX 591 9.55

"CARRY-ALL" CADDY



\$15.32

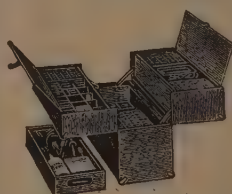
Type TC-4. One of the most popular caddies sold.

Carries up to 262 tubes with

room for soldering gun, meter, probes and assorted small parts. "Break-away" design permits quick access to all sections. Partitions aid in orderly arrangement of parts. Has two clasp locks; plastic carrying handle. Scuff-proof brown vinyl covering. 15x21x8". Shpg. wt., 12 lbs.

52 NX 735 15.32

SUPER TUBE CADDY



\$20.98

Type TC-5. Ruggedly built, double-door caddy for tubes, tools, meters and parts. Car-

ries up to 325 tubes with plenty of space for small parts. For the serviceman who believes in carrying a full load to save extra trips. Has removable 2¾" deep tray featuring "egg crate" design for fuses, bulbs, etc. Brown vinyl. 16½x24x8½". 19 lbs.

52 NX 738, \$5 Monthly 20.98

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and for exacting applications in aural, military, amateur and musical equipment. Carefully designed and thoroughly tested—assure optimum performance of electronic equipment by minimizing tube failure. "Premium" and G.E. "Five-
tube types are indicated by an asterisk or asterisk with prototype in brackets: 5670*(2C51). All of the tubes are directly interchangeable—no rewiring required.

SPECIAL HIGH-FIDELITY AUDIO TUBES

Types that are followed by a † in table below, are special high-fidelity tubes for top audio performance. Skillfully designed and factory-tested, they provide full fidelity, hum-free operation and long life. Types in brackets are receiving tube prototypes. All are directly interchangeable except §, may require some rewiring. Suffix MP indicates laboratory-balanced matched pairs. Recommended for use in power output stages of high-fidelity amplifiers.

MANUFACTURER'S ABBREVIATIONS

AMP Amperex Elect. Corp.
EIM Eitel McCullough
GE General Electric
MULL Mullard Products
PEN Penta Labs, Inc.
RCA Radio Corp. of Amer.
RAY Raytheon Mfg. Co.
SYL Sylva
TUNG Tungsol
VIC Victoreen



to Order—Specify Department and Tube Type. This tabular notation lets you quickly locate the tube types you want. When ordering, be sure to give the full Stock Number, which consists of Department Number and the Manufacturer's Tube Type number, thus E1-OA2. These numbers represent the location of tube in Allied's stockrooms and speed shipment of your order.

Allied stocks over 1500 different tube types, from 18 manufacturers, always ready for immediate delivery. Write for information on any high-fidelity or special-purpose tube not shown in this listing—we carry complete lines of our tube suppliers. As new tube types are released by manufacturers, Allied will stock them. Make Allied your one stop source for all your tube requirements.

Stock No. Tube Type	Mfr.	EACH	Stock No. Tube Type	Mfr.	EACH	Stock No. Tube Type	Mfr.	EACH
OA2	RCA	1.32	E21 ECL82†(6BM8)	MULL	1.52	E1 5823	RCA	1.72
OA3	RCA	1.54	E21 ECL82 MP†(6BM8)	MULL	3.48/pr.	E3 5824	GE	3.60
OA4G	GE	1.90	E21 UCL82†(50B8M)	MULL	1.49	E2 CK5879	RAY	1.95
OB2	RCA	1.37	E21 ECL82 MP†(50B8M)	MULL	3.48/pr.	E3 5881	GE	3.50
OB3	RAY	2.35	E1 83	RCA	1.89	E14 5881†(6L6)	TUNG	3.50
OC3	RCA	1.50	E4 ECC83†(12AX7)	AMP	1.28	E14 5881 MP†(6L6)	TUNG	7.85/pr.
OD3	RCA	1.44	E4 EL84 MP†(6BQ5)	MULL	2.70/pr.	E3 5896	GE	3.75
1A4	RAY	2.80	E4 EL84†(6BQ5)	AMP	1.30	E1 5899*	RCA	5.55
1A4	RAY	3.05	E4 EL84 MP†(6BQ5)	AMP	2.63/pr.	E1 5902*	RCA	4.80
1B85	VIC	9.60	E21 EM84(6FG6)	MULL	1.61	E1 5963	RCA	1.36
1L4	RCA	1.37	E4 ECC85†(6AQ8)	AMP	1.35	E1 5964	RCA	1.55
1P29	RCA	2.80	E21 EP85†(6BY7)	MULL	1.58	E1 5965	RCA	1.92
1P40	RC	3.75	E21 EF86†(6Z6)	MULL	1.32	E1 6005*(6AQ5)	RAY	3.93
2D21	RCA	1.29	E21 EL86†(6CW5)	MULL	1.39	E1 6072*(12AY7)	RCA	3.90
2E24	RCA	5.25	E3 EL86 MP†(6CW5)	MULL	3.15/pr.	E1 6073*(OA2)	RCA	3.00
2E26	RCA	3.75	E21 UF86	MULL	1.68	E1 6074*(OB2)	RCA	3.45
2X2A	RCA	3.35	E21 E88CC	MULL	4.75	E1 6080	RCA	5.33
3A5	RCA	2.03	E4 ECC88†(6DJ8)	AMP	1.89	E3 6087*(5Y3GT)	GE	5.75
3B28	RCA	6.00	E21 EL90 MP†(6AQ5)	MULL	2.60/pr.	E1 6111*	RCA	3.70
3KP1	RCA	20.35	E21 EZ90†(6X4)	MULL	.83	E1 6112*	RCA	4.15
4-65A	AMP	27.00	E21 ECC91†(6J6)	MULL	1.37	E1 6136*(6AU6)	RCA	2.70
4-125A	EIM	36.00	E21 EL95 MP†(6DL5)	MULL	2.60/pr.	E1 6146	RCA	4.35
4-250A	EIM	46.50	E9 100TH	EIM	23.50	E12 6146A	SYL	4.35
4-400A	EIM	48.00	E29 250TH	EIM	38.50	E1 6159	RCA	4.80
4-1000A	EIM	131.50	E9 304TH	EIM	75.00	E1 6186/6AG5 WA		
4CX250B/7203	EIM	39.00	E9 304TL	EIM	75.00	*(6AG5)	RCA	3.85
4CX300A	EIM	58.50	E1 502A	RCA	2.28	E1 6189/12AU7 WA		
4CX1000A	EIM	181.00	E1 807	RCA	3.00	*(12AU7)	RCA	3.70
RK4D32	RAY	32.76	E1 809	RCA	7.95	E1 6201*(12AT7)	RCA	2.95
4E27A/5-125B	PEN	45.00	E1 810	RCA	26.95	E3 6222	GE	7.35
4-65A	EIM	36.50	E1 811A	RCA	6.90	E3 6265*(6BH6)	GE	4.10
4X500A	EIM	128.50	E1 812A	RCA	6.90	E4 6267†(EF86)	AMP	1.38
5ABP1	RCA	31.50	E1 813	RCA	23.15	E1 6293	RCA	5.95
5BP1A	RCA	30.50	E1 815	RCA	28.35	E1 6328	RCA	12.65
5CP1A	RCA	22.55	E1 816	RCA	2.95	E1 6417	RCA	3.04
5R4GYA	GE	2.05	E1 829B	RCA	19.00	E14 6550†	TUNG	4.30
5R4GYB	RCA	2.03	E21 833A	RCA	53.65	E14 6550 MP†	TUNG	9.25/pr.
5UP1	RCA	13.10	E1 866A	RCA	2.65	E1 6626/OA2 WA*(OA2)	RCA	4.45
6AK6	RCA	1.40	E1 872A	RCA	9.90	E2 6627/OB2 WA	RAY	2.35
6A56	RCA	3.43	E1 884	RCA	2.28	E1 6653A	RCA	54.35
6AU6 WA	RCA	2.70	E1 918	RCA	4.45	E1 6661/6BH6	RCA	1.34
6A57G	RCA	4.93	E1 921	RCA	3.50	E1 6663/6AL5	RCA	.92
6A57GA	GE	4.95	E1 927	RCA	4.25	E1 6677/6CL6	RCA	1.85
6J4	RCA	4.19	E1 931VA	RCA	13.00	E1 6678/6UBA	RCA	1.62
6X4 W	SYL	1.60	E1 991	RCA	.87	E1 6679/12AT7	RCA	1.50
7J1/7VP1	SYL	33.00	E1 1614†	RCA	4.93	E1 6680/12AU7A	RCA	1.22
12A6	RCA	3.36	E1 1620†(6J7)	RCA	7.55	E1 6694A	RCA	13.20
EL34†(6CA7)	MULL	2.90	E1 1621†(6F6)	RCA	3.50	E1 6883	RCA	4.45
EL34 MP†(6CA7)	MULL	6.86/pr.	E1 1622†(6L6)	RCA	4.85	E21 7025†	MULL	1.35
GZ34†(5AR4)	MULL	2.10	E1 1625	RCA	4.75	E1 7034/4X150A	RCA	25.00
35T	EIM	33.00	E1 1635	RCA	3.82	E21 7189†	MULL	1.60
EL37†(6L6)	MULL	3.24	E1 2050	RCA	2.37	E21 7189 MP†	MULL	3.36/pr.
EL37 MP†(6L6)	MULL	6.74/pr.	E1 5639*	RCA	5.25	E1 7412	RCA	2.10
EL37 MP†(6L6)	AMP	6.82/pr.	E1 5651*	RCA	1.78	E1 7536	RCA	2.10
VX55	VIC	24.20	E2 CK5654	RAY	2.41	E1 7551	RCA	3.49
VX68	VIC	10.00	E1 5670*(2C51)	RCA	2.45	E1 7558	RCA	3.49
DM70†(1M3)	MULL	1.00	E1 5670 WA*(2C51)	RCA	3.00	E3 7701	GE	2.50
EBF80†(6N8)	MULL	1.52	E1 5687	RCA	4.05	E2 7729	RAY	1.95
EF80†(6BX6)	MULL	1.57	E1 5696	RCA	2.05	E2 7730	RAY	1.93
EZ80†(6V4)	MULL	.77	E1 5725*(6AS6)	RCA	3.15	E2 7731	RAY	2.49
ECC81†(12AT7)	AMP	1.53	E1 5726*(6AL5)	RCA	1.55	E2 7732	RAY	1.78
EM81†(6DA5)	MULL	1.35	E3 5727/2D21 W	GE	2.90	E2 7733	RAY	2.53
EZ81†(6CA4)	AMP	1.05	E1 5751*(12AX7)	RCA	2.55	E1 9001	RCA	5.38
EZ81†(6CA4)	MULL	1.14	E1 5763	RCA	2.53	E1 9002	RCA	4.14
ECC82†(12AU7)	AMP	1.23	E1 5814A*(12AU7)	RCA	2.35	E1 9003	RCA	5.38

Color Picture Tubes, Special-Design Tubes



"LIVING COLOR" TV PICTURE TUBES

- Deliver Vivid Color Images—Sharp Black-and-White, Too

- Glare-Proof Screens Reduce Light Reflections

RCA's "Colorama" color picture tubes offer a host of outstanding features—more efficient phosphors for greater color brilliance and sharper pictures; improved cathode assemblies for longer operating life;

glare-proof screens that practically eliminate room light reflections; greater picture contrast on both color and black-and-white; etc. Specify Dept. No. and Tube Type when ordering.

Stock No.	Tube Type	Wt., Lbs.	EACH
AU3	21AXP22A	38	Use 21AXP22A-104.46
AU3	21AXP22A	45	Use 21CVP22A 104.94

Stock No.	Tube Type	Wt., Lbs.	EACH
AU3	21FBP22	45	111.47
AU3	21FP22	54	122.50
AU3	21FKP22	..	Use 21FP22

MULLARD MASTER 10M SERIES TUBES—INDIVIDUALLY TESTED

Guaranteed for 10,000 Hours within Two Years from Purchase Date

EACH TUBE IN 10M SERIES INDIVIDUALLY TESTED FOR:

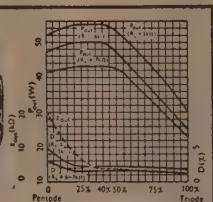
- Contact Potential
- Cathode Stability
- Heater Current
- Noise and Microphonics
- Section-to-Section Uniformity
- Grid Current Cutoff
- Transconductance
- Distortion

The Mullard 10M Series consists of carefully selected and designed tubes, individually laboratory-tested to meet exacting standards. Each tube is guaranteed for 10,000 hours of efficient and effective performance within a two-year period from the date of purchase. Multiple tests are conducted on each tube to assure long life and ultra-reliable performance, plus tube-to-tube and section-to-section uniformity. These carefully made tubes are highly recommended for any critical circuit application. Precision design renders them suitable for all types of electronic equipment in any application,

including broadcast and antenna systems, instrumentation, computers, radar, commercial sound and public address systems, etc. Ideal for today's technically advanced and exacting electronic assemblies, you can use these tubes for the finest results with existing equipment, as well as when designing new equipment. 10M Series tubes employ gold-protected pins; are individually carton-packed and sealed in plastic-foam cushion for extra protection during handling and shipping. Give Stock No. and Type No. when ordering. Av. shpg. wt., 5 oz.



Stock No.	Tube Type	EACH	Stock No.	Tube Type	EACH	Stock No.	Tube Type	EACH
96 A 017	6AB8	2.75	96 A 044	6EU7	2.35	96 A 071	PL84/15CW5	2.50
96 A 018	6A18	2.65	96 A 045	6FV5	2.35	96 A 072	ECC85/6AQ8	2.40
96 A 019	6AK5	3.25	96 A 046	6GK5	2.40	96 A 073	ECC86/6HG8	3.10
96 A 020	6AK8	2.80	96 A 047	6HG8	3.00	96 A 074	EF86/6267	2.50
96 A 021	6AL5	1.90	96 A 048	6J6	2.55	96 A 075	PCF86/7HG8	2.65
96 A 022	6AQ5	2.15	96 A 049	6J6A	2.55	96 A 076	ECC88/6D18	3.10
96 A 023	6AO5A	2.40	96 A 050	6TA3	2.80	96 A 077	EBF89/6DC8	2.55
96 A 024	6AQ8	2.40	96 A 051	7HG8	2.65	96 A 078	EBF89/6DA6	2.55
96 A 025	6AT6	2.00	96 A 052	9A8	3.25	96 A 079	EK90/6C4	2.85
96 A 026	6AU6	2.05	96 A 053	12AT7	2.55	96 A 080	EK90/6BE6	Use 6BR
96 A 027	6AU6A	2.05	96 A 054	12AU7	2.20	96 A 081	EL90/6A05	Use 6A05
96 A 028	6AV6	1.95	96 A 055	12AU7A	2.20	96 A 082	EB91/6AL5	1.95
96 A 029	6BA6	1.95	96 A 056	12AV6	1.95	96 A 083	ECC91/6AV6	2.55
96 A 030	6BE6	2.10	96 A 057	12AX7	2.20	96 A 084	ECC91/616	2.55
96 A 031	6BL8	3.05	96 A 058	12AX7A	2.20	96 A 085	HBC91/12AV6	1.95
96 A 032	6BO5	2.15	96 A 059	12DW7	2.55	96 A 086	EF93/6BA6	2.00
96 A 033	6BO5A	2.15	96 A 060	15CV5	2.50	96 A 087	EF94/6AU6	2.05
96 A 034	6C4	2.85	96 A 061	16AC80/6AK8	3.05	96 A 088	EF95/6E8R8	2.40
96 A 035	6DA6	2.55	96 A 062	ECC80/6BL8	3.05	96 A 089	EF95/6AK5	2.55
96 A 036	6DC8	2.65	96 A 063	ECL80/6AB8	2.75	96 A 090	ECL95/6DL5	2.55
96 A 037	6DJ8	3.00	96 A 064	PCF80/9A8	3.25	96 A 091	EC97/6FV5	2.35
96 A 038	6DL5	2.55	96 A 065	ECC81/12AT7	2.55	96 A 092	EF183/6EH7	2.60
96 A 039	6DX8	2.85	96 A 066	ECH81/6A18	2.65	96 A 093	EF184/6EJ7	3.60
96 A 040	6EH7	2.60	96 A 067	ECC82/12AU7	2.20	96 A 094	ECC189/6ES8	2.50
96 A 041	6EJ7	2.60	96 A 068	ECC83/12AX7	2.20	96 A 095	7025	2.35
96 A 042	6ER5	2.40	96 A 069	ECL84/6DX8	2.85	96 A 096	7247	2.55
96 A 043	6ES8	3.45	96 A 070	EL84/6BQ5	2.15			



Gold Lion

HAND-CRAFTED AUDIO TUBES BY GENALEX

Lab-Tested—for Hi-Fi and Other Critical Applications

- Each Tube Includes Individual Test Report
- Tested in Accordance with U.S. MIL-E-1 Procedures
- Microscopically Examined, Ultrasonically Cleaned
- Tubes Assembled Under Dust-Free Conditions

A series of hand-crafted, deluxe tubes for high-fidelity components, offering super-reliable, ultra-low-distortion service. Each "Gold Lion" tube is carefully quality-controlled during manufacture—actually measure up to prototype laboratory standard. Made in the finest tradition of British craftsmanship by the renowned General Electric Co., Ltd., of England. 100% tested for major characteristics, including operational tests, noise and microphonics. Secondary characteristics are checked and

approved on a statistical basis in accordance with U.S. Govt. MIL-E-1 procedures. 1,000-hour life tests are regularly made on samples selected at random—some tubes tested to 10,000 hours. Every component is microscopically examined, cleaned in ultrasonic baths, and assembled at pressurized dust-free benches. Each tube heat-sealed in dust-proof and tamperproof plicoform and separately cartoned. Be certain to Give Stock No. and Type No. when ordering. Av. shpg. wt., 4 oz.

Stock No.	Type	Replaces	EACH	Stock No.	Type	Replaces	EACH
96 A 000	GL-U52	5U4G, 5T4, 5931	2.90	96 A 011	GL-U709	6CA4, E281	3.20
96 A 001	GL-KT66	EL35, EL36, EL37, EL39, 1614, 1622, 5881	4.50	96 A 012	GL-D717	6AL5, D717, EB91, 5726, 6058, 6097, 6663	3.80
96 A 003	GL-KT77	6L6GB, 6CA7, EL34, 7581	5.50	96 A 013	GL-Z729	6CF8, EF86, 6267	3.00
96 A 005	GL-U77	5AR4, 5V4, 5Z4, GZ30, GZ32, GZ33, GZ34	3.70	96 A 014	GL-B739	12AT7, ECC81, B309, 6060, 6201, 6679	3.20
96 A 006	GL-KT88	6L6GC, 6550, 7027A	6.95	96 A 015	GL-B749	12AU7, ECC82, 5814, 6067, 6189, 6680	2.80
96 A 008	GL-U707	6X4, 6BX4, U78, EZ90, 5993, 6063, 6202, 6203	3.40	96 A 016	GL-B759	12AX7, ECC83, 5751, 6681, 7025, 7247	3.00
96 A 009	GL-N709	6BQ5, EL84	3.80				

MATCHED PAIRS

96 A 002	GL-KT66-MP	EL35, EL36, EL37, EL39, 1614, 1622, 5881	10.00/pr.	96 A 007	GL-KT88-MP	6L6GC, 6550, 7027A	14.90/pr.
96 A 004	GL-KT77-MP	6L6GB, 6CA7, EL34, 7581	12.00/pr.	96 A 010	GL-N709-MP	6BQ5, EL84	8.60/pr.

RCA "Silverama" TV Picture Tubes

ALL TUBES GUARANTEED FOR ONE YEAR

USE ALLIED'S CREDIT FUND PLAN NO MONEY DOWN!

The picture tube you need right now—
Allied's Credit Fund Plan, the most
at plan in electronics.

NO MONEY DOWN!

to page 433 for complete Credit
Plan information.

- Premium-Quality Picture Tubes at Low Cost
- Replace Almost All Existing TV Tubes
- Most Silverama Tubes Have Aluminized Screens

Why put up with that old, worn-out picture tube any longer? For bright, razor-sharp viewing, choose your replacement from RCA's renowned "Silverama" premium-quality line. Dependable "Silverama" black-and-white picture tubes feature aluminized screens, except types marked with *(asterisk). Where substitutes are indicated (for original types no longer being manufactured), the substitute is directly interchangeable in your TV set. All tubes carry a full one-year guarantee. When ordering give full Stock No.—Dept. No. and Tube Type.



One-Year
Guarantee

Stock No.			Stock No.			Stock No.		
Tube Type	Wt., Lbs.	EACH	Dept.	Tube Type	Wt., Lbs.	EACH	Dept.	Tube Type
5A XP4*	4	25.50	AU3	17QP4A	23	25.17	AU3	21CXPA
8D4*	4	25.67	AU3	17RP4*	.....	Use 17HP4B	AU3	21CZPA
8XP4*	6	28.00	AU3	17RP4C	.....	Use 17HP4B	AU3	21DAP4
8YP4	6	30.75	AU3	17TP4*	16	31.75	AU3	21DEPA
10FP4A	13	31.06	AU3	17UP4	.....	Use 17QP4A	AU3	21DEPA
12KP4A	17	30.70	AU3	17VP4	.....	Use 17LP4A	AU3	21DFPA
12LP4A*	.....	Use 12KP4A	AU3	17VP4B	.....	Use 17LP4A	AU3	21DLP4
14ATP4	12	28.74	AU3	17VP4	.....	Use 17QP4A	AU3	21DMP4
14BP4	.....	Use 14EP4	AU3	19ABP4	19	38.78	AU3	21DNP4
14CP4	.....	Use 14EP4	AU3	19AHP4	19	32.90	AU3	21DQP4
14EP4*	14	28.74	AU3	19AJP4	19	32.90	AU3	21DSP4
14HP4*	.....	Use 14QP4A	AU3	19AP4B*	27	32.02	AU3	21EP4
14NP4/A	.....	Use 14WP4	AU3	19AUP4	19	40.50	AU3	21EAP4
14QP4A	10	30.06	AU3	19AVP4	22	32.90	AU3	21EMP4
14RP4/A	.....	Use 14WP4	AU3	19AXPA	.....	Use 19AYPA	AU3	21EP4B
14SP4	.....	Use 14WP4	AU3	19AYPA	23	32.90	AU3	21EQPA
14WP4	12	32.02	AU3	19BTP4	19	32.90	AU3	21ESP4
14ZP4	.....	Use 14WP4	AU3	19CHP4	19	32.90	AU3	21EVP4
16AYP4	9	31.06	AU3	19XP4	.....	Use 19AVP4	AU3	21FAP4
16AP4A*	17	28.29	AU3	20CP4/A	.....	Use 20DP4C	AU3	21FDP4
16DP4A	23	29.40	AU3	20CP4B	.....	Use 20DP4C	AU3	21FLP4
16GP4B*	16	27.77	AU3	20CP4C	.....	Use 20DP4C	AU3	21FP4
16KP4	.....	Use 16RP4A	AU3	20CP4D	.....	Use 20DP4C	AU3	21FPA
16KP4A	.....	Use 16RP4A	AU3	20DP4	.....	Use 20DP4C	AU3	21FPA*
16LP4A*	25	32.66	AU3	20DP4A	.....	Use 20DP4C	AU3	21MP4*
16QP4	.....	Use 16RP4A	AU3	20DP4B	.....	Use 20DP4C	AU3	21WP4A
16RP4A	21	30.06	AU3	20DP4C	29	35.28	AU3	21XP4A
16TP4*	21	30.06	AU3	20HP4	.....	Use 20HP4D	AU3	21YP4A
16WP4A*	21	32.66	AU3	20HP4B	.....	Use 20HP4D	AU3	21ZP4
16ZP4	.....	Use 16LP4A	AU3	20HP4C	.....	Use 20HP4D	AU3	21ZP4B
17AP4	.....	Use 17BP4A	AU3	20HP4D	29	35.28	AU3	23AHP4
17ATP4	.....	Use 17JP4	AU3	20LP4	.....	Use 20HP4D	AU3	23ALP4
17BTP4A	.....	Use 17JP4	AU3	20MP4	.....	Use 20HP4D	AU3	23ANP4
17AVP4	.....	Use 17JP4	AU3	21ACP4	.....	Use 21AMP4A	AU3	23ASP4
17AVP4A	.....	Use 17JP4	AU3	21ACP4A	.....	Use 21AMP4A	AU3	23AWP4
17BP4	17	27.44	AU3	21AFP4	.....	Use 21YP4A	AU3	23BJP4
17BP4*	.....	Use 17BP4A	AU3	21ALP4	.....	Use 21CBP4A	AU3	23BKPA
17BP4B	21	25.48	AU3	21ALP4A	.....	Use 21CBP4A	AU3	23BLP4
17BP4C	.....	Use 17BP4B	AU3	21ALP4B	.....	Use 21CBP4A	AU3	23CBP4
17BRP4	.....	Use 17DSP4	AU3	21AMP4	.....	Use 21AMP4A	AU3	23CP4
17BUP4	.....	Use 17BP4A	AU3	21AMP4A	27	26.22	AU3	23DP4
17BVP4	.....	Use 17CSP4	AU3	21ANP4	.....	Use 21CBP4A	AU3	23EP4
17BW4	.....	Use 17CSP4	AU3	21ANP4A	.....	Use 21CBP4A	AU3	23FP4A
17BZP4	.....	Use 17DSP4	AU3	21AP4*	25	38.78	AU3	23GP4
17CAP4	.....	Use 17DSP4	AU3	21AQPA	.....	Use 21AMP4A	AU3	23HP4
17CBP4	.....	Use 17BP4A	AU3	21AQPA	.....	Use 21AMP4A	AU3	23JP4
17CDP4	14	37.17	AU3	21ATP4	.....	Use 21CBP4A	AU3	23MP4
17CFP4	17	27.44	AU3	21ATP4A	.....	Use 21CBP4A	AU3	23NP4
17CKP4	.....	Use 17DSP4	AU3	21ATP4B	.....	Use 21CBP4A	AU3	23VP4
17CLP4	.....	Use 17BP4A	AU3	21AUP4	.....	Use 21AVP4B	AU3	24ADP4
17CP4*	16	27.44	AU3	21AUP4A	.....	Use 21AVP4B	AU3	24AEP4
17CSP4	13	29.79	AU3	21AUP4B	.....	Use 21AVP4B	AU3	24AHP4
17CWP4	.....	Use 17DSP4	AU3	21AVP4A	.....	Use 21AVP4B	AU3	24ALP4
17CYP4	17	34.15	AU3	21AWP4	33	29.98	AU3	24ANP4
17DAP4	13	35.47	AU3	21AWP4	33	29.98	AU3	24ATP4
17DKP4	14	29.79	AU3	21BAP4	.....	Use 21CBP4A	AU3	24AUP4
17DLP4	.....	Use 17DSP4	AU3	21BNP4	.....	Use 21CBP4A	AU3	24BAP4
17DPQ4	13	29.13	AU3	21BSP4	.....	Use 21AMP4A	AU3	24CP4
17DRP4	14	35.02	AU3	21BTP4	.....	Use 21CBP4A	AU3	24CP4A
17DSP4	13	29.13	AU3	21CBP4	.....	Use 21CBP4A	AU3	24DP4/A
17DTP4	.....	Use 17DKP4	AU3	21CBP4A	33	26.22	AU3	24QP4
17DXP4	14	29.13	AU3	21CBP4B	.....	Use 21CBP4A	AU3	24TP4
17GP4*	16	30.06	AU3	21CEP4	.....	Use 21DFP4	AU3	24VP4/A
17HP4A	.....	Use 17HP4B	AU3	21CEP4A	.....	Use 21CBP4A	AU3	24XP4
17HP4B	23	25.48	AU3	21CMP4	.....	Use 21CBP4A	AU3	24YP4
17JP4	.....	Use 17BP4A	AU3	21CQP4	20	35.28	AU3	24ZP4
17LP4	.....	Use 17LP4A	AU3	21CUP4	.....	Use 21AMP4A	AU3	27EP4
17LP4A	23	24.52	AU3	21CVP4	.....	Use 21CBP4A	AU3	27MP4
17QP4	.....	Use 17QP4A	AU3	21CWP4	.....	Use 21CBP4A	AU3	27RP4

Quality-Engineered Burgess Batteries

BATTERIES FOR ALL APPLICATIONS

- Always a Fresh Supply of the Most Up-to-Date Types
- As New Types Become Available, Allied will Stock Them

Burgess batteries are manufactured to exacting chemical and mechanical specifications. Incorporate "silver wash" for improved cell-to-cell conductivity, "chrome" inhibitors for guaranteed freshness, and sealed-in-steel protection. Zinc-carbon types shown on this and following pages are ideal for general use. Alkaline types for high and constant current drain requirements, and nickel-cadmium types for rechargeable use are listed on other pages in this section.



PORTABLE BATTERIES FOR TRANSISTOR RADIOS

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces			
						Eveready	Mallory	RCA	NEDA
55 J 769	2MN6	.65 ea.	9	1 3/8 x 1 1/2 x 1 1/2"	1/4	216		VS323	160
55 J 661	2N6	1.30 ea.	9	2 3/4 x 1 3/8 x 1 1/2"	1/4	246	M-1602	VS305	160
55 JC 650	2U6	.48 ea.	9	1 3/8 x 1 1/2 x 1 1/2"	1/4	216	M-1604	VS312	160
55 J 860	2Z3	1.11 ea.	4 1/2	1 3/8 x 1 3/8 x 2 3/4"	1/4	243	M-1610	VS324	161
55 J 861	130	Pkg. of 2 for .20	1 1/2	1 3/8 x 1 3/8 x 2 3/4"	1/4	912	M-24F	VS074	14
		Pkg. of 2 for .32	1 1/2	1 1/8 x 3/4 x 1 1/2"	1/2	635	M-14R	VS335	14
55 J 862	230	Pkg. of 2 for .32	1 1/2	2 25/32 x 1 1/2 x 1 1/2"	1/2	A100	M-13R	VS336	13
55 J 863	930	Pkg. of 4 for .64	1 1/2	1 1/8 x 3/4 x 1 1/2"	1/2	1015E	M-15R	VS034	15
55 J 666	A4	.69 ea.	6	2 1/2 x 1 1/2 x 1 1/2"	1/4	235E			161
55 J 670	C6K	1.10 ea.	9	2 1/8 x 1 1/8 x 1 1/2"	1/4	707	M-26	VS315	26
55 J 098	D5	1.05 ea.	7 1/2	2 1/8 x 1 1/8 x 1 1/2"	1/4	707	M-26	VS315	26
55 J 652	D6	1.26 ea.	1	3 5/8 x 2 3/8 x 1 1/2"	1	276	M-1603	VS306	160
55 J 667	D6PI	1.76 ea.	3, 6, 9	7 7/8 x 1 1/2 x 2 1/8"	1 1/2	2506	M-1601	VS301	160
55 J 102	D6S	1.36 ea.	9	2 1/4 x 1 1/4 x 7 7/8"	1 1/8	2761	M-1608		161
55 J 174	L6	.52 ea.	9	2 1/8 x 1 1/8 x 1 1/2"	1/4	206		VS337	161
55 J 103	M6	1.05 ea.	9	1 1/8 x 1 1/8 x 2 3/4"	1/2	266	M-1605	VS322	160
55 J 864	NE	Pkg. of 6 for .48	1 1/2	1 1/8 x 1 1/8 x 1 1/2"	1 1/2			VS300	170
55 J 093	P6	.62 ea.	9	1 1/8 x 1 1/8 x 1 1/2"	1 1/2	226		VS300	160
55 J 770	PM6	.80 ea.	9	1 1/8 x 1 1/8 x 1 1/2"	1 1/2	226		VS300	160
55 J 657	XX9	1.05 ea.	9, 13 1/2	1 1/8 x 2 3/8 x 2 1/4"	1 1/2	239	M-1900	VS304	1900
55 J 364	Y6	.83 ea.	9	3/8 x 5/8 x 1 1/2"	1/8	E177		VS309A	160



M6



C5

PORTABLE "A" BATTERIES

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces			
						Eveready	Mallory	RCA	NEDA
55 J 865	2D	Pkg. of 2 for .26	1 1/2	1 1/8 x 3/4 x 1 1/2"	1/2	935	M-14F	VS035A	
55 J 051	2R	.84 ea.	1 1/2	2 1/8 x 1 1/8 x 1 1/2"	1/2	950	M-14S	VS069	13
55 J 866	2R	Pkg. of 2 for .26	1 1/2	2 1/8 x 1 1/8 x 1 1/2"	1/2	950	M-13R	VS036	13
55 J 644	21R	.32 ea.	1 1/2	4 1/8 x 1 1/2 x 1 1/2"	1/2	964	M-20	VS236	20
55 J 041	B5	1.58 ea.	7 1/2	3 1/8 x 1 1/8 x 2 1/2"	1 1/2	713	M-8	VS129	8
55 J 042	C5	1.05 ea.	7 1/2	2 7/8 x 1 1/8 x 3 1/2"	1 1/2	717	M-9	VS065	9
55 J 052	F3	.92 ea.	4 1/2	3 7/8 x 1 1/8 x 3 1/2"	1 1/2	726	M-19	VS072	19
55 J 053	T5	1.32 ea.	1 1/2	4 1/8 x 1 1/8 x 1 1/2"	1 1/2	736	M-2	VS067	2
55 J 053	Z4	.70 ea.	6	2 1/8 x 2 1/8 x 3 1/2"	1 1/2	W360			10
			4	1 3/8 x 1 1/8 x 2 1/2"	1 1/2	724	M-2	VS068	2

PORTABLE "B" BATTERIES

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces			
						Eveready	Mallory	RCA	NEDA
55 J 570	A30	2.49 ea.	45	3 3/8 x 2 1/4 x 4 5/8"	1 3/4	W359	M-206	VS014	
55 J 571	B30	3.29 ea.	45	4 1/8 x 2 1/4 x 5 5/8"	2 1/4	484	M-207	VS012	
55 J 572	K45	2.42 ea.	67 1/2	2 1/8 x 1 1/8 x 2 1/4"	2 1/4	457	M-203	VS082	203
55 J 576	M30	2.70 ea.	45	5 1/8 x 3 1/8 x 3 1/8"	2 1/2	482	M-202	VS013	202
55 J 597	V60	3.15 ea.	90	3 1/8 x 1 1/8 x 3 1/8"	1	490	M-204	VS090	
55 J 669	N60X	3.47 ea.	90	1 7/8 x 1 1/2 x 7 1/8"	1 1/4	495	M-216	VS316	216
55 J 645	P45	2.17 ea.	67 1/2	1 25/32 x 1 3/8 x 3 1/2"	1 1/4	477	M-211P	VS218	211
55 J 651	P60	2.77 ea.	90	1 25/32 x 1 3/8 x 3 1/2"	1 1/4	479	M-214	VS219	214
55 J 649	U30	1.75 ea.	45	1 3/8 x 3/4 x 3 1/8"	1 1/4	415	M-213	VS086	213
55 J 668	UX45	2.07 ea.	67 1/2	1 7/8 x 3/4 x 3 1/8"	1 1/4	410	M-217	VS318	217
55 J 772	V45	2.45 ea.	67 1/2	2 3/8 x 1 1/8 x 3 3/8"	1	468		VS055	200
55 J 575	XX30	1.92 ea.	45	2 1/8 x 3/4 x 3 1/8"	1	455		VS055	201
55 J 574	XX45	2.45 ea.	67 1/2	2 3/8 x 1 1/8 x 3 3/8"	1	467	M-200	VS016	200
55 J 586	XX50	3.15 ea.	75	2 1/8 x 3/4 x 3 1/8"	1 1/4	437	M-212	VS217	212
55 J 581	XX69	4.60 ea.	103 1/2	1 1/8 x 1 1/8 x 1 1/2"	1 1/2	W361			
55 J 572	Z30	2.76 ea.	45	3 3/8 x 1 1/8 x 4 1/8"	1 1/2	738	M-205	VS015	

PORTABLE "AB" PACKS

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces			
						Eveready	Mallory	RCA	NEDA
55 J 654	4TZ60	4.38 ea.	1 1/2, 90	7 5/8 x 2 1/4 x 3 1/2"	4	729	M-425	VS064	425
55 J 578	6TA60	5.48 ea.	1 1/2, 90	9 1/8 x 2 1/4 x 4 1/8"	4 1/2	W369	M-410	VS054	410
55 J 589	FGA60P	5.57 ea.	9, 90	9 1/8 x 2 3/4 x 4 1/8"	6 1/2	757	M-406	VS058	406
55 J 579	GB60	5.78 ea.	9, 90	1 3/8 x 2 1/8 x 4 1/2"	7	752	M-400	VS047	400
55 J 653	TZ50P	4.83 ea.	7 1/2, 75	8 1/8 x 3 1/8 x 2 3/8"	3 1/2	785	M-431	VS060	431
55 J 587	TZ60	4.87 ea.	7 1/2, 9, 90	2 3/8 x 8 1/8 x 3 1/8"	4 1/2	756	M-405	VS057W	405

TYPE 2U6—FOR TRANSISTOR

PORTABLE RADIOS

Popular 9 volt battery—used in most Japanese-import transistor pocket radios. Equivalent to RCA VS-323; Eveready 216; Mallory M1604; Ray-O-Vac 1604; General 179; Western Auto 7 D7604; Marathon 1604; Montgomery Ward 123; Sears 6417; Zenith 216; NEDA 1604. 1 1/8 x 3/8 x 1 1/2". 2 oz. 55 JC 650. EACH 48¢



TYPE XX45 PORTABLE "B" BATTERY



Compact 67 1/2 volt "B" battery for use in portable radios. Physically and electrically equivalent to the following: Eveready 467; Mallory M-200; RCA VS015; Philco Z67; Zenith Z67; Ray-O-Vac 200; NEDA 200. Carefully manufactured to assure long life and peak performance at all times. Size, 2 3/8 x 1 1/8 x 3 1/8". Wt., 1 1/4 lb. 55 J 574. EACH 2.45

TYPE G6B60 PORTABLE "AB" BATTERY



An "AB" pack for use in portable radios. Provides 45 volts "A" voltage, 90 volts "B" voltage. Exactly equivalent to the following: Eveready 752; RCA VS047; Mallory M-400; Ray-O-Vac A400; NEDA 400. Carefully constructed for extended service and peak output over long periods of time. 1 3/8 x 2 1/8 x 4 1/2". Ship. wt., 7 lbs. 55 J 579. EACH 5.75

Burgess Quality Batteries

BATTERIES FOR EVERY PURPOSE

FOR USE IN THE HOME, CAR, SHOP AND PLANT

Allied stocks a wide variety of quality Burgess batteries to meet all your requirements. These factory-fresh, top-performing, long-lasting units feature dependable Burgess construction, superior materials, and thorough performance testing. They are designed for long, reliable service at peak operating efficiency. Listings on this page and on adjacent pages cover battery types for use in hundreds of home, automobile, commercial and industrial applications as well as virtually all portable radio sets.



"FEATHERWEIGHT" "B" BATTERIES—INCLUDING HEARING AID TYPES

Stock No.	Mfr's Type	Price	Volts	Size	Shpg. Wt., Lbs.
J 054	XX15	1.37 ea.	22½	1½x1½x3¾	2
J 055	XX22	1.72 ea.	33	2½x3½x3½	6
J 060	XX30PI	2.10 ea.	45	2½x3½x4½	12
J 104	K-10	1.16 ea.	15	1¼x½x1½	2
J 105	K-15	1.23 ea.	22½	1¼x½x2½	2
J 062	U10	1.01 ea.	15	1½x½x1½	2
J 064	U15	1.05 ea.	22½	1½x½x2½	2
J 066	U20	1.23 ea.	30	1½x½x2½	2
J 069	Y10	.81 ea.	15	1½x1½x1½	3
J 075	Y15	1.05 ea.	22½	1½x1½x1½	3
J 068	Y20	1.30 ea.	30	1½x1½x1½	3
J 077	Y20S	1.30 ea.	30	1½x1½x2½	3

Replaces					
RCA	Zenith	Sono-tone	Eveready	Acous-tico	Ray-O-
			425P	22EW	PN15
			433P	3HEW	PN22
			455P	45EW	PN30F
			417		
			420		
VS083	Z11M	211	411	711G	208
VS084	Z12M	212	412	712H	215
VS085	Z13M	213	413	713G	A210
			504	715G	220
			505	722G	221
			506		
			507		

STANDARD DRY BATTERIES

able for all radio, laboratory and hobby requirements. Ideal for running model boats, planes, cars, transmitters, etc. Burgess quality construction and interiors allow use of very active ingredients, providing maximum useful life. All have exceptionally large power outputs and highly active depolarizing agents which regenerate power producing capacity when batteries are not being used. Letters following battery type designations denote terminals: P—plug-in terminals; S—snap terminals. All others have screw terminals.



SC—spring-clip

"A" BATTERIES

Stock No.	Mfr's Type	Volts	Size	Shpg. Wt., Lbs.	Price
J 590	2BBP	1½	1½x1½x2½	1	1.16 ea.
J 001	2F	1½	2½x1½x4½	1	.77 ea.
J 010	2F2H	3	2½x2½x4½	1½	1.08 ea.
J 033	2F2BP	3	4½x1½x4½	1½	2.23 ea.
J 002	2F4	6	5x2½x5½	2½	2.23 ea.
J 030	2FBP	1½	2½x1½x4½	1	.79 ea.
J 032	2Z2P	3	1½x1½x2½	1	.65 ea.
J 048	3F	3	6½x1½x5½	1	.65 ea.
J 003	4F	1½	2½x2½x4½	1½	1.15 ea.
J 034	422	3	2½x2½x1½	1	.57 ea.
J 026	432	4½	2½x1½x4½	1	.66 ea.
J 051	5R	1½	2½x1½x2½	1	.68 ea.
J 595	5F	1½	4½x2½x4½	2½	1.93 ea.
J 004	6F	1½	3½x2½x5½	2	2.42 ea.
J 046	8R	1½	3½x6½x1½	1	.60 ea.
J 047	9R	1½	1½x6½x1½	1	.12 ea.
J 592	B2BP	3	1½x1½x2½	1	.94 ea.
J 011	F2BP	3	2½x1½x4½	1	.79 ea.
J 009	F4BP	6	2½x2½x4½	1	.79 ea.
J 007	F4PI	6	2½x2½x2½x4½	1½	1.16 ea.
J 008	G	4½	4½x1½x6½x4½	1½	3.05 ea.

"B" BATTERIES

J 557	1030SC	45	8½x4½x7½	11¾	4.84 ea.
J 555	2130SC	45	8½x4½x7½	13	5.36 ea.
J 558	2308SC	45	8½x4½x7½	8	3.84 ea.
J 560	4156	22½	3½x2½x2½x2½	1	1.61 ea.
J 561	5156P1	22½	4½x2½x2½x4½	1¾	3.12 ea.
J 562	5156S	22½	4½x2½x2½x4½	1¾	3.12 ea.
J 593	S308	45	4½x4½x4½	9	9.4 ea.
J 594	U-200	300	2½x2½x3¾	1	8.37 ea.
J 109	Z30T	45	3½x2½x4½	1½	2.62 ea.
J 567	W30BPX	45	3½x1½x4½	¾	2.49 ea.
J 569	Z30N	45	1½x3½x2½x4½	1½	2.69 ea.
J 598	Z60BP	90	3½x2½x4½x3½	2¾	8.90 ea.

"C" BATTERIES

J 583	2370	4½	3½x6½x1½x2½	¾	1.33 ea.
J 563	2370PI	4½	4½x1½x4½x2½	1	1.58 ea.
J 565	5360	4½	2½x6½x2½x2½	1	.88 ea.
J 564	5540	7½	4½x6½x2½	1½	1.65 ea.
J 591	A9BP	13½	2½x2½x2½x2½	½	3.76 ea.
J 568	W5BP	7½	2½x2½x2½x1½	¾	1.47 ea.

SPECIAL-PURPOSE TAPE RECORDER BATTERIES

Extremely compact, highly dependable batteries. Designed specifically for use in pocket tape recorders. *Flat contact. †Snap type.

Stock No.	Type	Volts	Size	Lbs.	Price
J 110	2X62X†	1½, 9	2½x1½x2½x2½	½	1.82 ea.
J 111	2X7†	10½	2½x1½x2½x1½	½	1.82 ea.
J 112	3X7†	10½	1½x1½x2½x3½	½	2.00 ea.

FLASHLIGHT BATTERIES

Manufactured with "chrome" inhibitor for guaranteed freshness, "silver wax" sealing for improved cell-to-cell conductivity, and leak-proof, sealed-in-steel construction for safety in handling and protection against the effects of damaging corrosion to your flashlight. Type I (size C)—for baby tubular flashlights; Types 2 and 210 (size D)—for standard flashlights; Type Z (size AAA)—for slim penlights; Type N—for miniature and novelty lights. *Heavy-duty version of No. 2 cell; provides up to 2½ times more service. Av. shpg. wt., 5 oz.



1 2 210

Stock No.	Mfr's Type	Volts	Size (Lx Dx.)	Price	Replaces
55 J 865	1	1½	1½x1½x¾	Pkg. of 2 For 26¢	935 1LP
55 J 867	2	1½	2½x1½x¾	Pkg. of 4 For 52¢	950 2LP
55 J 868	210*	2½	2½x1½x¾	Pkg. of 2 For 20¢	912 400
55 J 869	N	1½	1½x1½x¾	Pkg. of 4 For 64¢	1050 3LP
55 J 870	Z	1½	1½x1½x¾	Pkg. of 6 For 48¢	904 716
				Pkg. of 2 For 20¢	915 7R

IGNITION, TELEPHONE AND ALARM BATTERIES

Designed for emergency illumination, portable lighting systems, alarm systems, etc. Constructed for dependable operation with long service life. Used by railroads, police and fire departments, emergency crews, etc. In leakproof metal containers. Types 4F2H and 4F4H are recommended for general ignition service and for use in telephone systems, lanterns, etc.



4FM 4F2H

Stock No.	Mfr's Type	Volts	Size	Shpg. Wt., Lbs.	Price
55 J 871	4FM	1½	2½x2½x4½	1½	.84 ea.
55 J 015	4F2H	3	3½x2½x1½x5½	2¾	1.45 ea.
55 J 014	4F4H	6	8½x6½x5½x5½	6½	3.34 ea.
55 J 584	4F5H	7½	7½x3½x2½x5½	7½	4.86 ea.
55 J 021	4F6H	9	8½x3½x2½x5½	9	5.53 ea.
55 J 641	6-Ign.	1½	6½x2½x4½	2	.84 ea.
55 J 642	6-Tel.	1½	6½x2½x4½	2	.84 ea.
55 J 647	6-Ind.	1½	6½x2½x4½	2	.90 ea.
55 J 643	S461	6	10½x2½x7½	8½	3.34 ea.

LANTERN BATTERIES

Specially designed batteries for use with railroad-type lanterns. Type F4H has positive coil-spring contacts—a long standing favorite with railroadmen. Type TW1S is designed for underwater use, and is ideal for use in deep sea diving, skin diving and underwater salvage work.



F4BP TW1

Stock No.	Mfr's Type	Volts	Size	Wt., Lbs.	Price
55 J 115	4F2H	3	3½x2½x1½x5½	1½	1.45 ea.
55 J 015	4F2H	6	8½x6½x5½x5½	6½	.79 ea.
55 J 009	F4BP	6	2½x2½x4½	1½	.79 ea.
55 J 113	F4SC	6	2½x2½x4½	1½	.79 ea.
55 J 658	TW1	6	3½x2½x4½x1½	3½	1.83 ea.
55 J 114	TW1S	6	3½x2½x4½x1½	3½	2.05 ea.
55 J 500	TW2	12	5½x2½x4½x1½	3½	1.83 ea.

BURGESS BATTERY ENGINEERING MANUAL

Provides complete battery data for the design engineer. Covers dry battery curves for estimating performance, includes information on cell types, performance on standard tests, terminal illustrations and dimensions, etc. Illus. 134 pages. 6x9½". 38 K 874. Postpaid in U.S.A. EACH 1.00

Mallory Batteries—Cinch-Jones Battery Plugs

MALLORY MERCURY TRANSISTOR-RADIO BATTERIES

For transistorized portable radios and industrial electronic equipment. Reliable under high pressure and high temperature, and after extended periods of non-use. Wt., per pair, 4 oz.



TR-146



TR-133



TR-177



RM-401



RM-1



RM-625R



Stock No.	Mfr's Type	Volts	Size (Dia. x Ht., or HWD)	Wt., Oz.	Price	Eveready	Replaces Burgess	RCA
55 J 881	ZL-9	1.4	1 1/2 x 1 1/2	4	Pkg. of 2 for 1.02	E9	HG9	VS-31
55 J 882	DM-9N	1.4	1 1/2 x 1 1/2	4	Pkg. of 2 for 1.80	E10N	HG10N	VS-31
55 J 883	TR-133	4.2	2 1/2 x 2	5	Pkg. of 2 for 2.00	E133	H133	VS-14
55 J 884	TR-146	8.4	1 1/2 x 1 1/2	4	Pkg. of 2 for 2.10	E146	H146	VS-14
55 J 885	TR-164	5.6	2 1/2 x 1 1/2	4	Pkg. of 2 for 2.30	E164	H164	VS-10
55 J 886	TR-175	7.0	3/4 x 1 1/2	4	Pkg. of 2 for 2.10			
55 J 887	TR-177	9.8	3/4 x 1 1/2	4	Pkg. of 2 for 2.30	E177	H177	VS-10
55 J 888	TR-233	4.2	1 1/2 x 1 1/2	5	Pkg. of 2 for 1.80	E233	H233	VS-10
55 J 889	TR-286	8.4	1 1/2 x 1 1/2	5	Pkg. of 2 for 2.70	E286	H286	VS-10
55 J 890	RM-401	1.4	1 1/2 x 1 1/2	4	Pkg. of 2 for .68	E401	HQ401	VS-401
55 J 891	TR-126	8.4	3/4 x 1 1/2	5	Pkg. of 2 for 2.10	E126	H126	VS-32
55 J 892	RM-640	1.4	3/4 x 1 1/2	4	Pkg. of 2 for .60	E640	HQ640	VS-150

MALLORY MERCURY BATTERIES

Have extremely long shelf life, uniform discharge voltage and extended operating life. Suffix T of RM batteries indicates 1/2" tab on negative terminal; T2 indicates 2 tabs.

TR batteries are transistor powerpaks with self-ventilating construction, designed to relieve excess gas which may form. Av. shpg. wt., per pair, 6 oz.

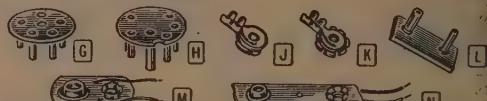
Stock No.	Mfr's Type	Volts	Size (Dia. x Ht., or HWD)	Price	Eveready	Replaces Burgess	RCA
55 J 921	RM1	1.4	3/4 x 1 1/2	Pkg. of 2 for .76	E1	HG1	VS143
55 J 922	RM1R	1.35	3/4 x 1 1/2	Pkg. of 2 for .88	E1N	HG1R	VS143
55 J 923	RM1RT2	1.35	3/4 x 1 1/2	Pkg. of 2 for 1.06			
55 J 924	RM3	1.35	1 1/2 x 1 1/2	Pkg. of 2 for .34	E3	HG3	VS144
55 J 925	RM4R	1.35	1 1/2 x 1 1/2	Pkg. of 2 for 1.72	E4	HG4R	VS144
55 J 926	RM4RT	1.35	1 1/2 x 1 1/2	Pkg. of 2 for .82			
55 J 927	RM4Z	1.4	1 1/2 x 1 1/2	Pkg. of 2 for 1.16			
55 J 928	RM12R	1.4	3/4 x 2	Pkg. of 2 for .50	E12	HG12	VS144
55 J 929	RM12RT	1.35	3/4 x 2	Pkg. of 2 for .64	E12N	HG12R	VS144
55 J 931	RM12RT2	1.35	3/4 x 2	Pkg. of 2 for .74			
55 J 687	RM42R	1.35	1 1/2 x 2 1/2	Pkg. of 2 for 1.84			
55 J 375	RM42RT2	1.35	1 1/2 x 2 1/2	1.85 ea.	E42N	HG42R	
55 J 950	RM312	1.4	3/4 x 3 1/2	Pkg. of 2 for .48	E312	HG312	VS145
55 J 951	RM400R	1.35	1 1/2 x 1 1/2	Pkg. of 2 for .58	E400N	HG400R	VS145
55 J 952	RM411	1.4	1 1/2 x 1 1/2	Pkg. of 2 for 4.00			
55 J 953	RM412	22.4	1 1/2 x 1 1/2	Pkg. of 2 for 5.10			
55 J 954	RM413	28.0	1 1/2 x 2 1/2	Pkg. of 2 for 6.50			
55 J 955	RM415	42.0	1 1/2 x 3 1/2	Pkg. of 2 for 10.20			
55 J 956	RM450R	1.35	2 1/4 x 3 1/2	Pkg. of 2 for .88	E450	HG450R	VS147
55 J 957	RM502R	1.35	1 1/2 x 2	Pkg. of 2 for 1.24	E502	HG502R	VS148
55 J 958	RM520	1.4	3/4 x 1 1/2	Pkg. of 2 for .68	E520	HG520	VS148
55 J 961	RM625R	1.35	3/4 x 1 1/2	Pkg. of 2 for .88	E625	HG625R	VS148
55 J 959	RM625RT2	1.35	3/4 x 1 1/2	Pkg. of 2 for .88			
55 J 960	RM640RT2	1.35	5/8 x 1 1/2	Pkg. of 2 for .80			
55 J 893	TR-132R	2.7	2 1/2 x 1 1/2	Pkg. of 2 for 1.56	E675	HG675	VS147
55 J 894	TR-114R	5.4	2 1/2 x 1 1/2	Pkg. of 2 for 3.30	E113	H113R	VS148
55 J 895	TR-114RT2	5.4	2 1/2 x 1 1/2	Pkg. of 2 for 3.20	E114	H114R	VS148
55 J 896	TR-115R	6.75	2 1/2 x 1 1/2	Pkg. of 2 for 3.40	E115N	H115R	VS148
55 J 897	RM630	1.4	5/8 x 1 1/2	Pkg. of 2 for .60	E630	HG630	VS147
55 J 898	TR-132R	2.7	2 1/2 x 1 1/2	Pkg. of 2 for 1.84	E132N	H132R	VS148
55 J 932	TR-133R	4.05	2 1/2 x 1 1/2	Pkg. of 2 for 2.36	E133N	H133R	VS148
55 J 933	TR-134R	5.4	2 1/2 x 2 1/2	Pkg. of 2 for 2.90	E134N	H134R	VS148
55 J 934	TR-135R	6.75	2 1/2 x 3 1/2	Pkg. of 2 for 3.70	E135N	H135R	VS148
55 J 935	TR-136R	8.1	2 1/2 x 3 1/2	Pkg. of 2 for 4.36	E136N	H136R	VS148
55 J 937	TR-152R	7	2 1/2 x 1 1/2	Pkg. of 2 for 3.10	E145	H145	VS148
55 J 938	TR-153R	4.05	1 1/2 x 1 1/2	Pkg. of 2 for 1.56	E152N	H152R	VS148
55 J 939	TR-162R	2.7	2 1/2 x 1 1/2	Pkg. of 2 for 2.50	E153N	H153R	VS148
55 J 940	TR-163	4.2	2 1/2 x 1 1/2	Pkg. of 2 for 1.74	E162	H162R	VS148
55 J 941	TR-165	7.0	2 1/2 x 1 1/2	Pkg. of 2 for 2.10	E163	H163	VS163
55 J 942	TR-169	12.6	2 1/2 x 2 1/2	Pkg. of 2 for 3.20	E165	H165	VS165
55 J 360	TR-234R	5.6	1 1/2 x 1 1/2	Pkg. of 2 for 7.00	E169		
55 J 943	TR-235R	6.75	1 1/2 x 1 1/2	Pkg. of 2 for 5.86	E235N		
55 J 944	TR-289	12.6	1 1/2 x 2 1/2	Pkg. of 2 for 4.10	E289		
55 J 361	303145	8.4	4 1/2 x 1 1/2	6.33 ea.			
55 J 502	RM42	1.4	1 1/2 x 3 1/2	1.70 ea.	E42		
55 J 945	302125M	7	1 1/2 x 2 1/2	7.25 ea.	E302125	302125	
55 J 946	302351M	5.4	1 1/2 x 3 1/2	3.28 ea.	E302351	302351	
55 J 947	302478M	9.8	1 1/2 x 3 1/2	5.27 ea.	E302478	302478	
55 J 948	302642	7	1 1/2 x 2 1/2	3.40 ea.	E302642	302642	

CINCH-JONES PLUGS FOR BATTERIES



Cinch-Jones plugs for "A," "B," and various other batteries. *5 prongs, 5 Fahnestock clips. Av. shpg. wt., 1 oz. 2 per package.

Stock No.	Type	Fig.	For Burgess Battery	For RCA Battery	PKG.
55 J 178 SA1	A	2F, 4F, 6F, 8F	2D, 8R	VS069, VS070, VS141	8¢
55 J 180 SA5	B	5, 6, 7, 8	VS065		14¢
55 J 176 SA1A	A	2F, 4F, 6F, 8F	2D, XX, 30P1		10¢
55 J 310 SB2-1	D	A30, B30, M30, W30P1	Z30, 10308P1	VS13, VS014	14¢
55 J 183 SC-2	E	5156P1			14¢
55 J 181 SA2	F	2TXX40			12¢
55 J 177 SARI-1	G	6TA00, 4T260			17¢
55 J 182 SAB7	H	FA0A60, 6GM60, T6Z60	VS019, VS050, VS057W		19¢



Stock No.	Type	Fig.	For Burgess Battery	For RCA Battery	PKG.
55 J 301	SM	J	P6, D5, P6M, M6	VS300A, VS315, VS322, VS301	12¢
55 J 302	5F	K	XX45, XX30, XX50, K45, P45, P45M, P60, D6, 4D4, N60X, C6X	VS055, VS217, VS082, VS218, VS215, VS219, VS306, VS316	12¢
55 J 179 SA3	L	D3, E3, G3	2F4, F4P1, XX15, XX22, XX30P1	VS067, VS072	9¢
55 J 175 SA4	L	2F4, F4P1, XX15, XX22, XX30P1	U30, 2U6, 2N6, UX45	VS086, VS323, VS312, VS305	10¢
55 J 184 SD	M	U30, 2U6, 2N6, UX45			67¢
55 J 307 SD1	N	XX50, P45, P45M, P60, N60X, C6X		VS218, VS215, VS219	67¢
55 J 308 SD2	N	N60			67¢
55 J 309 SMFA	N	XX45, XX30, K45		VS016, VS055, VS082	67¢

Batteries, Lanterns and Battery Holders

SONOTONE RECHARGEABLE BATTERY

FC-3. Rechargeable, duty flashlight battery that can be used in place of 2 "D" cells. Battery unscrews to expose unit plugs into any 110 v. wall outlet. Built-in charger charges nickel-cadmium cells night. Battery will power a bulb continuously for 2 1/2 hours without recharge. Leak cannot overcharge. 1 1/2 x 3 3/4 in. Shpg. wt. 10 oz.



Recharges in any AC outlet... charges overnight



FC-2. Identical to FC-3, but powers 2K-2 bulb for 3 1/2 hours. Shpg. wt. 8 oz.

EACH 5.57

BURGESS NICKEL-CADMIUM BATTERIES

Cells. Shipped with no or very low test charge. May be charged many times. Unaffected by idle periods. Types CD3L, CD4L, CD5L and CD6L are supplied with solder lug terminals; CD3L, CD4L and CD5L have pressure contacts. 110 hour discharge rate (ma). Made in steel.



BUTTON CELLS

Stock No.	Mfr's Type	Size	Wt., Oz.	Dis. (ma)	Replaces Eveready	Price
J 377	CD1	29x6x1 1/8"	2	2	N22	1.16 ea.
J 378	CD2	39x6x1 1/8"	2	2	N24	.81 ea.
J 379	CD3	14x2 1/2x1 1/8"	2	15	N28	.92 ea.
J 380	CD3L	63x6x1 1/8"	2	15	N28T	1.01 ea.
J 381	CD4	63x6x1 1/8"	2	22	N32	.95 ea.
J 382	CD4L	63x6x1 1/8"	2	22	N32T	1.21 ea.
J 383	CD5	14x2 1/2x1 1/8"	2	45	N36	1.47 ea.
J 384	CD5L	14x2 1/2x1 1/8"	2	45	N36L	1.60 ea.
J 385	CD6	63x6x1 1/8"	2	10	N26	.99 ea.
J 498	CD6L	63x6x1 1/8"	2	10	N26L	.99 ea.

CYLINDRICAL CELLS

Stock No.	Mfr's Type	Size	Wt., Oz.	Dis. (ma)	Replaces Eveready	Price
J 385	CD6	9/16x1 1/8"	2	45	N46	1.93 ea.
J 386	CD6L	9/16x1 1/8"	2	45	N46L	2.20 ea.
J 387	CD7	11/16x2 1/8"	2	7	N56	3.50 ea.
J 388	CD7L	11/16x2 1/8"	2	7	N56L	3.75 ea.
J 499	CD9	3/8x3 1/8"	3	90	N52	3.01 ea.
J 836	CD10	11/16x2 1/8"	2	400	N57	6.12 ea.
J 837	CD10L	11/16x2 1/8"	2	400	N57L	6.40 ea.
J 838	CD11	11/16x2 1/8"	2	300	N57	4.53 ea.
J 840	CD12	7/8x1 1/8"	2	120	N57	2.70 ea.

NEW SENCORE BE-124 BATTERY ELIMINATOR AND

NICKEL-CADMIUM BATTERY CHARGER

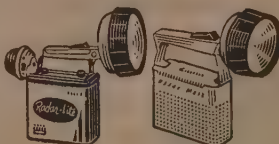
Easy-to-use power supply replaces batteries during repair time of transistor radios. Tapped voltage at 1.5 volt DC intervals from 0 to 12 volts on the front panel for simple connection and insure center tap and bias voltages when needed. Function switch converts meter to a scale showing 0 to 50 ma current reading device to monitor the current drain of the transistor unit. Improved regulation and voltage calibrated potentiometer guarantee accurate, well filtered output. 11/4x9 1/4x2 1/4". 2 lbs.



F0 703..... 24.45

BURGESS LANTERNS AND FLASHLIGHT

Model TW3. All purpose lantern with 4 3/4" lead-beam lamp. Key and ring signal swings 90° movable arm. Battery can be changed in seconds. Home handle. 11 1/4x9 1/4x4 1/4". 6 lbs.



J 342..... 8.28

Model TW4. Same as above, less flashlight. 6 lbs.

J 337..... 6.63

J 526. Model TW12. As above, but with 12-volt battery. 6 lbs..... 6.75

J 658. TW1 6-Volt Battery. For TW3, TW4, TW6E and TW7 terns. 3 1/2 lbs..... 1.83

J 500. TW2 12-Volt Battery. For TW12. 3 1/2 lbs..... 1.83

Model Jr-1. "Radar-Mate" Lantern. Heavy-gauge steel construction-corrosion-resistant design, plus weatherproof switch for years of trouble-free service. Special multi-facet vaporized reflector provides long beam with peak light distribution. Head moves 135° up and down. Home case. Requires three No. 2 batteries. 1 1/4 lbs..... 3.32

J 667. No. 2 Battery. For Jr-1 above. 1 1/2 lbs. 4 per pkg..... 5.24

J 117. Model 159 Flashlight. (not illustrated). "Magnet Light" at holds to steel. Less batteries (see 2 No. 2's). 1 lb..... 1.20

1lb-Type Model TW7. (not illustrated). Portable lantern with super-efficient lamp. Completely leakproof and weatherproof. Battery can be placed in seconds—two nuts hold battery to head assembly. 9/4x5 1/4x4 1/4". With TW1 6-v. battery, 4 1/2 lbs.

J 662..... 5.73

SAVE ON REALTONE BATTERIES

Handy packages of 1 1/2-volt flashlight batteries. Leakproof for long-lasting power. 39 A 896 (size D), sealed in plastic and steel—fits any standard flashlight. 39 A 897 (size C) is for baby tubular flashlights. 39 A 898 (size AA) is for standard penlights and pocket lights. From Japan. Av. shpg. wt., 5 oz.



Stock No.	Lx(DxH) (Inches)	Replaces Eveready	Butt-ess	Price
39 A 896	2 3/4x1 1/4x1 1/4"	950	2	Pkg. of 2 for 23¢
39 A 897	1 1/2x5/8x3/4"	935	1	Pkg. of 2 for 19¢
39 A 898	1 1/2x5/8x3/4"	915	2	Pkg. of 4 for 34¢

BURGESS BATTERIES

AL SERIES ALKALINE ENERGIZER BATTERIES

Revolutionary alkaline energizer batteries specially designed for high drain, continuous service applications. Deliver higher amperage over a much longer period than do standard flashlight batteries. Also feature longer shelf life and greater recuperative powers than conventional zinc-carbon types. Maintain constant output during periods of discharge. Ideal for use in portable TV sets, flashlights, transistor radios, hearing aids, photo-flash guns, electric toys and games, etc. All have flat contacts. Sizes: AL-2—"D"; AL-1—"C"; AL-9—"AA"; AL-7—"AAA"; AL-N—"N"; AL-13—"Transistor Radio". Av. shpg. wt., 6 oz.



Stock No.	Type	V.	Size	Price	Replaces Mallory	Eveready
55 J 872	2	1.5	1 1/2x2 1/4x2 1/4"	.65 ea.	MN1300	E95
55 J 873	1	1.5	1 1/2x1 1/4x1 1/4"	.51 ea.	MN1400	E93
55 J 874	9	1.5	9/16x1 1/4x1 1/4"	Pkg. of 2/66	MN1500	E91
55 J 875	7	1.5	7/8x1 1/4x1 1/4"	Pkg. of 2/62	MN2400	.....
55 J 876	N	1.5	1 1/2x2 1/4x2 1/4"	Pkg. of 2/48	MN9100	904
55 J 877	133	4.5	2 1/2x2"	Pkg. of 2/130	MN1306	333

PHOTO-FLASH BATTERIES

Hi-amp Manganese-dioxide for positive flash, split-second synchronization of the solenoid shutter and bulb. Type XX45 is for slave units; Type D3, K45, M30, N150, V60, U160, U200, U320 and XX150 are for electronic repeating flash; Types U10, U20, U10 and U15 are for B-C units. Types 120, 220 and 920 are cylindrical cells for high initial current discharge—Type 120 is Size "C"; Type 220, Size "D"; Type 920, Size "AA".



Stock No.	Mfr's Type	Volts	Size	Shpg. Wt.	Price	Replaces Eveready
55 J 878	120	1 1/2	1 1/2x1 1/4x2 1/4"	8 oz.	Pkg. of 2/32	835
55 J 879	220	1 1/2	1 1/2x2 1/4x2 1/4"	12 oz.	Pkg. of 2/32	850
55 J 880	920	1 1/2	3/4x1 1/4x1 1/4"	8 oz.	Pkg. of 2/26	815
55 J 052	D3	4 1/2	3/4x1 1/4x2 1/4"	3/4 lb.	.95	726
55 J 596	K45	67 1/2	2 1/4x1 1/4x2 1/4"	1/4 lb.	2.43	457
55 J 576	M30	45	3 3/4x1 1/4x5 1/2"	2 lbs.	2.70	482
55 J 597	N150	225	3 3/4x2 1/4x4 1/4"	1 1/4 lbs.	6.12	492
55 J 597	V60	90	3 3/4x1 1/4x3 1/4"	1 1/4 lbs.	3.15	490
55 J 062	U10	15	1 3/8x1 1/4x1 1/4"	2 oz.	.81	411
55 J 065	U160	240	2 3/8x1 1/4x4 1/4"	3/4 lb.	5.56	491
55 J 066	U20	30	1 3/8x1 1/4x2 1/4"	2 oz.	1.23	413
55 J 594	U200	300	2 3/4x2 1/4x3 3/8"	1 lb.	8.37	493
55 J 660	U320	510	2 1/8x1 1/4x5 1/2"	1 1/4 lbs.	11.16	497
55 J 655	XX150	225	4 1/2x2 1/4x4 1/4"	2 1/4 lbs.	6.06	489
55 J 074	XX45	67 1/2	2 1/4x1 1/4x2 1/4"	3/4 lb.	2.45	467
55 J 069	Y10	15	1 3/8x1 1/4x1 1/4"	1 oz.	.81	504
55 J 075	Y15	22 1/2	1 3/8x1 1/4x1 1/4"	1 oz.	1.05	505

KEYSTONE BATTERY HOLDERS

Battery holders for transistor assemblies, radios, meters, model airplanes, etc. Feature snap-plugs, moisture-proof fiber washers, mounting holes and aluminum-alloy, nickel-plated eyelets. *End to end. Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Holds	Burgess	Mallory	Eveready	Price PKG. 2
55 J 900	104	1		RM3R	E3	.60
55 J 901	139	1		RM12R	E9	.46
55 J 902	140	1		RM12R	E13, E502	.76
55 J 903	171	3	Z, 9R, Y15	RM502R	915, 1015E	.98
55 J 904	182	4		ZM-9	505	1.28
55 J 905	189	2	*		1015E	.90
55 J 906	173	1		TR233R	E233, 635	.60
55 J 907	174	2			935	.90
55 J 908	185	1				.60
55 J 909	137	1				.46
55 J 910	138	2				.76
55 J 911	132	1		TR132R	E132	.60
55 J 912	175	1		TR115R	D99, A-100	.60
55 J 913	176	2			724	.76
55 J 914	186	2	Z, 24	RM42R	950	.92
55 J 915	166	1	U10 *		411	.60
55 J 916	177	1	U15	RM412R	412	.60
55 J 917	178	2	U20		413	.60
55 J 918	183	1	Y10		410	.42
55 J 919	225	1			411	.60
55 J 920	226	2				.70

Semiconductor Bargains for Hobbyists



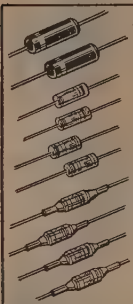
40-WATT GERMANIUM POWER TRANSISTOR

87¢ Each

- Rated 15 Amps at 30 Volts
- Low Silhouette Head Design

A value-packed offer. A germanium PNP, alloy junction power transistor for industrial, servicing and hobbyist applications. 40-watt power dissipation. Rated 15 amps @ 30 volts. Suitable for P.A. and hi-fi amplifiers, etc. Features compact, low silhouette head to permit much greater circuit design freedom. Replaces Delco 501, Bendix 2N278 and 2N173, plus many others. Shpg. wt., 3 oz.

39 A 634-D.....EACH 87¢

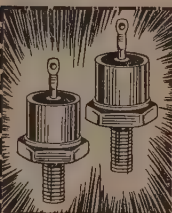


10-PC GERMANIUM DIODE PACKAGE

Pkg. of 10 **98¢** Less Than A Dime Each

Package of 10 ruggedly constructed germanium point contact diodes for use in communications equipment, digital computers and all types of control equipment. Especially effective as signal detectors and compressors in the IF, RF and VHF ranges. Also used in fast switching applications. Consists of: 2 Sylvania 1N120, 1 Sylvania 1N571, 1 Amperex 1N480, 2 Transistor 1N48 and 4 other types. Types 1N120, 1N571 and 1N48 are equivalent to Types 1N34 and 1N34A; Type 1N480, to Types 1N54 and 1N54A. All are clearly marked. Wt., per pkg., 7 oz. 10 per pkg.

39 A 884-D.....PER PKG. 98¢



SILICON RECTIFIER PACKAGES

as low as 4 for **49¢**

Packages of low or medium current, high junction temperature silicon rectifiers. Hex mounting studs allow use of heat sink for better heat transfer and higher current ratings. Hermetically sealed. Av. shpg. wt., per pkg. of 2, 4 oz.

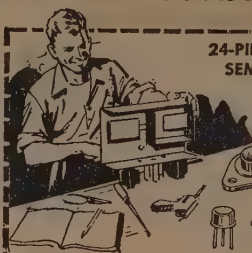
Stock No.	Volts	Amps	Equivalent	Quantity Per Pkg.	PER PKG.
39 A 720-D	50	2	1N2026	4	.49
39 A 721-D	100	2	1N347	2	.39
39 A 722-D	200	2	1N2027	2	.59
39 A 723-D	400	2	1N2029	2	.99
39 A 920-D	50	6	1N1341	2	.79
39 A 921-D	100	6	1N1342	2	.99
39 A 922-D	200	6	1N1344	1	.69
39 A 923-D	400	6	1N1346	1	.99
39 A 924-D	50	12	1N1199	2	.89
39 A 925-D	100	12	1N1200	1	.59
39 A 926-D	200	12	1N1202	1	.79
39 A 927-D	400	12	1N1204	1	1.23

TOP-HAT SILICON RECTIFIERS

as low as 2 for **39¢** 500 and 750 ma

Money-saving packages of 2 hermetically sealed top-hat silicon rectifiers. Av. shpg. wt., per pkg., 4 oz. 2 per pkg.

Stock No.	Output (ma)	PIV (V)	RMS (V)	PER PKG.
39 A 908-D	500	200	140	39¢
39 A 909-D	500	400	140	59¢
39 A 910-D	500	600	140	98¢
39 A 911-D	750	200	140	49¢
39 A 912-D	750	400	140	69¢
39 A 913-D	750	600	140	98¢



24-PIECE EXPERIMENTER'S SEMICONDUCTOR KIT

Complete 24-Pc. Kit **\$395**

Great for All Sorts of Projects!

A convenient, cash-saving way for you to stock up on 24 of the most popular semiconductors for countless electronic experimental and servicing projects. Kit consists of the following: two 2N176 PNP audio transistors; two NPN general purpose transistors equivalent to Types 2N168, 2N169 and 2N170; two IF amplifier, RF oscillator germanium type PNP transistors; four silicon epoxy rectifiers, similar to Type 1N2070 (750 ma, 400 PIV); ten germanium diodes (equivalent to Types 1N34, 1N34A, 1N60, 1N64 and 1N87A); two transistor sockets; and two 6-amp (similar to 1N1346) silicon rectifiers (400 PIV). Shpg. wt., 2 1/2 lbs.

39 A 918-D.....3.95

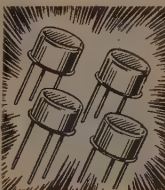


2 SILICON EPOXY RECTIFIERS

Pkg. of 2 **77¢** 750 ma, 400 PIV

A fine buy on epoxy silicon rectifiers manufactured by Sylvania. Same as 1N2070. Rated at 750 ma with PIV of 400 v. Use for power supplies in radios, TV sets, audio amplifiers. Meet military specifications. Shpg. wt., 3 oz. 2 per pkg.

39 A 669-D.....PER PKG. 77¢



4 NPN TRANSISTORS

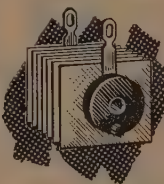
Pkg. of 4 **98¢** Special Purchase

Lay in a supply of these germaniums at this bargain price. Suitable for high frequency, IF and RF amplifier service. Equivalent to Types 2N168, 2N169 and 2N170. HVCBO 15 v. BVCEB 10 v. Ierms max. 200 ma. ICPEAK 400 ma. Wt., per pkg., 3 oz. 4 per pkg.

39 A 643-D.....PER PKG. 98¢

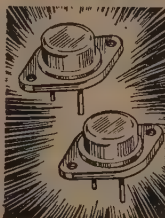
100-MA MINIATURE SELENIUM RECTIFIER

45¢ Each Center-Cooled Through Spacers



Miniaturized selenium featuring center cooling through use of spacers. High density—designed for radio, phonograph, television, TV booster, UHF converter as well as Amateur and experimental applications. Bakelite end plates for higher leakage resistance. Rated at 130 RMS volts input. With solder lugs. 1x1x3/4". Wt., 3 oz.

39 A 006-D.....EACH 45¢



PNP POWER TRANSISTORS

Pkg. of 2 **\$129** 20-Watt, 15 Amps

Terrific buy on package of 2 germanium PNP transistors. Operate at 20 watts in power amplifiers and power conversion applications. Excellent for use in motor and solenoid controls and drivers for relays. Equivalent to Types 2N638, 2N638A, 2N103, 2N677 and many other types. Shpg. wt., 4 oz. 2 per pkg.

39 A 917-D.....PER PKG. 1.29

New General-Purpose Semiconductors



ENTERTAINMENT-TYPE SEMICONDUCTORS



UNIVERSAL REPLACEMENT TRANSISTORS

highly dependable, low-cost transistors designed as general replacements for most types of transistors used in radios, TV sets, and other home-entertainment devices. The nine transistors listed below offer the majority of applications that a radio or TV serviceman will encounter. They permit a service shop to reduce to a minimum the number of different types of transistors that it must stock. Inventories are therefore minimized. GE-9 is smaller than GE-1 (E-9, .209" dia.; GE-1, .335" dia.).

Type No.	Outline Drawing	Use	Application	EACH
GE-1	B	PNP	Mixer/Oscillator Converter; RF and IF Amplifier	1.25
GE-2	B	PNP	AF Amplifier	1.20
GE-3	C	PNP	AF Power Amplifier	2.25
GE-4	D	PNP	AF High Power Amplifier	4.50
GE-5	B	NPN	Mixer/Oscillator Converter; RF and AF Amplifier	1.63
GE-6	A	NPN	Mixer/Oscillator Converter; RF Amplifier	1.75
GE-7	A	NPN	IF Amplifier	1.58
GE-8	B	NPN	AF Amplifier	1.20
GE-9	B	PNP	Mixer/Oscillator Converter; RF and IF Amplifier	1.20

TYPE GE-504 UNIVERSAL TV RECTIFIER

General Electric TV rectifier with 45-amp surge rating. Recommended as a replacement for all selenium, germanium, and silicon rectifiers used in television receivers. Replaces your TV rectifier stock to an absolute minimum. 45-amp surge rating eliminates need for surge limiting resistors normally required when silicon rectifiers are used. Peak inverse voltage rating is 400 volts. Maximum DC output current rating is 750 milliamperes.



TOP-HAT SILICON AND GERMANIUM RECTIFIERS

Illustrated above. For low-cost, general use. Hermetic seals.

Type No.	Peak Inverse Volts	Maximum DC (ma)	EACH
IN191	100	150	.85
IN1692	100	600	.51
IN1693	200	600	.59
IN1694	300	600	.63
IN1695	400	600	.78
IN1696	500	600	.89
IN1697	600	600	1.16

GERMANIUM TV RECTIFIERS

Low-voltage rectifiers for low-voltage supplies. Feature compact size, increased output, long life, easy installation. Extremely low voltage-drop. IN584 is dual rectifier wired for voltage-doubler use. IN1024 half-wave type; requires 3 mounting holes.

Type No.	RMS Volts	Peak Inverse Volts	Max. DC (ma)	EACH
IN584	130	380	400	1.97
IN1024	130	380	400	1.50

CRYSTAL DIODES

Type No.	Description	Av. Forward Current (ma)	PRV	EACH
IN34AS	General Purpose	50	75	32¢
IN60	Video Detector	50	30	48¢
IN82A	Silicon UHF Mixer	...	5	91¢
IN295	50-mc Detector	30	50	35¢

"VAC-U-SEL" DOUBLE DIODES

Miniature units for TV horizontal detector, etc. Static balance, less than 0.3 ma difference between cells. Internal capacity shall not be greater than 50 pF when measured at 50 mV peak signal while biased with 10 VDC. Endure 95% humidity at 95°F for 200 hours. Max. case temp., 85°C. Only 1/4" x 1/4" x 1/4".



Type No.	I _{fw}	I _{mr}	Description	E.A.
6GC1	1.1 ma @ 2.5V	4 µa @ 20V	Common Cathode	54¢
6GD1	1.1 ma @ 2.5V	4 µa @ 20V	Series Connected	
6GX1	1.1 ma @ 2.5V	4 µa @ 20V	Common Anode	

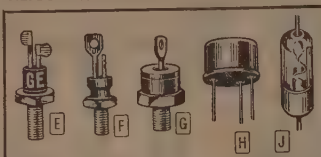
ELECTRONIC COMPONENTS FOR EXPERIMENTERS AND HOBBYISTS

Series GE-X includes diagrams from which educational and practical electronic devices can be built. All are silicon controlled devices, except GE-X4 (conventional silicon rectifier), and GE-X6 (cadmium sulfide photo-conductive cell).



SILICON RECTIFIERS

GE-X1. Silicon controlled rectifier is solid-state switch for 117-v. household circuits. Controls up to 4.7 amps. Speed control for hand tools, mixers, etc.



GE-X3. Silicon controlled rectifier for high current (up to 13 amps) at lower voltage up to 50 PIV. Ideal for battery chargers, electroplating, relay replacement, or low-voltage controls operating from auto or boat batteries.

GE-X4. Low-cost, high-current conventional silicon rectifier. 20 amps at up to 200 PIV. For Hi-Lo lamp dimmers, motor-speed controls, battery chargers, and (with GE-X1 or GE-X3) full-wave SCR light dimmers or DC power supplies.

GE-X5. Rugged little silicon controlled rectifier capable of handling up to 1.6 amps and 50 volts. Because it can be activated by an extremely low signal (momentary 200 µw or less), it is invaluable for simple remote controls, temperature controls, alarm systems, other imaginative devices.

GE-X2. "Mighty midget"—the first light activated power switch. Silicon controlled rectifier conducts up to 1/4 amp, up to 25 volts. Fine for photoelectric controls, experimental ignition systems, "Slave Photoflash" circuits, miniature lightweight static relays, punched card or tape readouts.

CADMIUM SULFIDE PHOTO-CONDUCTIVE CELL
GE-X6. End-illuminated, cadmium sulfide photo-conductive cell for making intriguing electronic devices. Up to 250 volts peak AC-DC in control uses such as relay controls, automatic light flashers, remote indication, and punched card or tape readouts.



TYPE GE-X7 REED SWITCH

(Not illus.) can carry loads from 15 volt-amperes down to micro-amperes. The GE-X7, with external magnetic actuation, is ideal for liquid-level controls, weight measuring devices, temperature limiters, multiple relays and many other uses.

TYPE 2N107 AUDIO TRANSISTOR

Alloy junction PNP for projects such as simple audio amplifiers; 1-, 2-, or 3-transistor radios; code-practice oscillator; and loudspeaker audio amplifiers.



TYPE 2N170 HIGH-FREQUENCY TRANSISTOR

Low-voltage, high-frequency NPN transistor—ideal companion to 2N107 above. Use it to build pocket radios, amplifiers, and other interesting devices.



TYPE GE-M100 GERMANIUM MESA TRANSISTOR

Germanium mesa transistor for the Ham, hobbyist, and Citizens Band. The GE-M100 is packaged with complete circuit diagrams covering construction of transistorized citizens-band receiver and remote control units.



MANUALS

Transistor Manual, 22 chapters containing transistor theory, transistor circuits for radios, amplifiers, oscillators, etc., and other valuable information.



37 K 001, Postpaid in U.S. . . . 2.00
Electronics Experimenter/Hobbyist Manual, New SCR and rectifier applications. Simple, but interesting and useful circuits. 37 K 102, Postpaid in U.S. . . . 1.00

Transistors from Leading Manufacturers

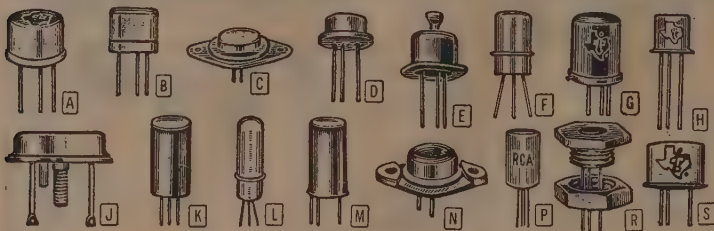
ALLIED—WORLD'S LARGEST SUPPLIER OF SEMICONDUCTORS

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- You Pay the Lowest Price in Effect at the Time Your Order is Shipped
- All Types Are Available for Immediate Shipment

This listing represents only the more popular types of semi-conductors stocked by Allied—those of particular interest to

the experimenter, radio Amateur and hobbyist. Phone or write us for any types you need that are not shown in the list below.



MANUFACTURERS

GE	General Electric
HA	Hughes Aircraft
IN	International Rectifier
MI	Microwave Associates
MOT	Motorola
PAC	Pacific Semiconductors
PHI	Philco
RAY	Raytheon
RCA	Radio Corp. of America
ST	Sarkes-Tarzan
SYL	Sylvania
TI	Texas Instruments

EXPLANATION OF COLUMN HEADINGS AND SYMBOLS (Cont'd. on Next Page)

P_c —maximum collector dissipation in milliwatts
 P_t —total dissipation in watts
 I_c —maximum collector current in milliamperes
 BV_{cb} —collector-to-base breakdown voltage in volts
 h_{fe} —small signal AC current gain (small signal AC beta)
 h_{fb} —DC current gain (large signal DC beta)
 f_{α} —alpha cutoff frequency in megacycles
 $f_{\alpha e}$ —alpha cutoff frequency in megacycles—common emitter
 AJ —alloy junction type
 GJ —grown junction type
 Av. shpg. wt., 2 oz.

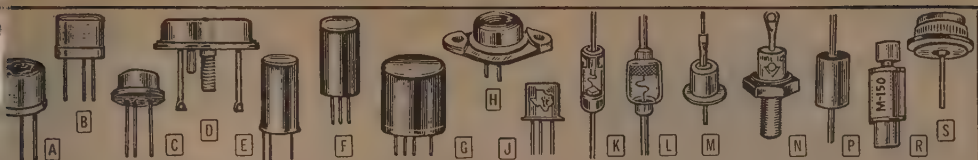
DB—diffused barrier type
 SB—surface barrier type
 RG—rate grown type
 DF—drift field type
 UN—unijunction type
 "Si" in design column indicates silicon type;
 all others are germanium
 • in design column indicates NPN type;
 all others are PNP type

Type No.	Mfr.	Fig.	Design or Structure	P_c mW	P_t W	I_c Ma	BV_{cb} V	h_{fe} or h_{FE}	f_{α} or $f_{\alpha e}$ Mc	EACH
2N34/5	SYL	A	AJ	250	100	40	40	0.8	3.26	
2N35	SYL	A	AJ	180	100	40	40	1.1	3.26	
2N43	SYL	D	AJ	240	300	45	53	1.3	4.15	
2N44	GE	E	AJ	240	300	45	31	1.0	2.95	
2N107	RCA	A	AJ	150	50	30	44	0.7	1.65	
2N109	GE	D	M	150	50	10	12	19	1.0	.55
2N136	RCA	D	Switch	100	50	20	40	6.5	2.55	
2N139	RCA	K	AJ	80	15	16	43	6.8	1.16	
2N140	RCA	K	AJ	80	15	7.0	75	10	1.24	
2N169	GE	E	AJ	65	20	15	72	9.0	1.57	
2N170	GE	J	AJ	150*	15	60	70	2.5	.75	
2N174	RCA	M	AJ	150*	15	60	50	1.0	4.01	
2N176	RCA	J	C	90*	3.0	40	70	1.0	1.20	
2N187A	GE	A	AJ	200	200	25	30	1.0	1.50	
2N188A	GE	D	AJ	200	200	25	54	8.0	1.64	
2N190	GE	D	AJ	75	50	25	36	1.0	.70	
2N191	GE	D	AJ	75	50	25	34	1.2	.83	
2N192	GE	D	B	75	50	25	75	1.5	1.57	
2N194	SYL	B	AJ	50	50	12	8.0	3.0	1.25	
2N207	PHI	E	AJ	50	50	10	12	2.0	.95	
2N207B	PHI	E	AJ	50	50	10	12	2.0	2.52	
2N213	SYL	B	AJ	150	100	40	150	3.0	1.25	
2N214	SYL	B	AJ	150	50	40	250	.15	1.59	
2N217	RCA	M	AJ	150	70	25	75	.80	1.42	
2N219	RCA	M	AJ	50	2.0	10	65	.85	1.24	
2N220	RCA	M	AJ	50	2.0	10	65	.85	1.55	
2N223	PHI	F	AJ	250	150	18	110	.50	1.08	
2N229	SYL	B	AJ	50	40	10	75	3.0	.50	
2N233	SYL	B	AJ	50	50	10	5.0	3.0	2.47	
2N247/33	SYL	C	DF	10*	3.0A	15	30	1.00	1.00	
2N255	SYL	C	DF	10*	3.0A	15	30	1.00	1.00	
2N265	GE	D	AJ	75	50	25	110	1.5	1.87	
2N270	RCA	K	AJ	250	750	25	70	1	.83	
2N278	MOT	J	AJ	150*	15A	50	10	10	1.85	
2N282	GE	E	AJ	65	20	15	25	6.0	.75	
2N293	GE	E	AJ	65	20	15	25	7.0	.75	
2N297A	MOT	N	C	65	4.0A	60	100	12 kct	1.75	
2N301	RCA	AJ	3*	2.0A	40	70	10	1.5	.83	
2N307	RCA	AJ	11*	1.0A	35	30	33	2.0	.49	
2N319	GE	E	AJ	240	200	20	33	2.5	2.59	
2N320	GE	E	AJ	240	200	20	33	2.5	2.59	
2N321	GE	E	AJ	240	200	20	33	2.5	2.59	
2N322	GE	E	AJ	240	200	16	42	3.0	.65	
2N323	GE	E	AJ	240	200	16	42	3.0	.65	
2N324	GE	E	AJ	240	200	16	80	3.0	.63	
2N331	MOT	A	AJ	200	200	30	50	0.4	1.50	
2N345	PHI	L	SB	20	5	5	35	4.35	5.85	
2N346	PHI	L	SB	20	5	5	35	4.35	5.85	
2N350A	MOT	C	AJ	90*	3A	50	30	5	1.65	
2N351	RCA	C	AJ	10*	3A	40	65	45	2.03	
2N351A	MOT	C	AJ	90*	5A	40	45	400	1.70	
2N362	RAY	AJ	150	100	18	90	2.0	.83	1.70	
2N363	RAY	AJ	150	100	32	50	1.5	.72	1.70	
2N370	RCA	K	DF	80	10	24	100	60	.31	
2N371	RCA	K	DF	80	10	20	60	30	.79	
2N372	RCA	K	DF	80	10	20	60	30	.79	
2N376	RCA	C	DF	10*	3A	40	78	60	2.10	
2N384	RCA	A	Si Mesa	120	10	60	100	1.65	1.59	
2N388	RCA	A	*AJ	150	200	25	150	8.0	5.9	

Type No.	Mfr.	Fig.	Design or Structure	P_c mW	P_t W	I_c Ma	BV_{cb} V	h_{fe} or h_{FE}	f_{α} or $f_{\alpha e}$ Mc	EACH
2N398A	MOT	A	AJ	150	200	105	20	1.0	1.30	
2N404	GE	A	AJ	120	100	25	40	12.0	1.50	
2N404	RCA	A	AJ	120	100	25	40	12.0	1.50	
2N405	RCA	K	AJ	150	70	12	35	.65	.44	
2N406	RCA	M	AJ	150	70	12	35	.65	.44	
2N407	RCA	K	AJ	150	70	20	75	13	.48	
2N408	RCA	M	AJ	150	70	20	75	13	.48	
2N409	RCA	K	AJ	80	15	13	48	6.8	.55	
2N410	RCA	M	AJ	80	15	13	48	6.8	.55	
2N411	RCA	K	AJ	80	15	13	75	10.0	.50	
2N412	M	A	AJ	80	15	13	75	10.0	.50	
2N414	RAY	AJ	AJ	150	200	30	60	7.0	1.80	
2N416	RCA	AJ	AJ	150	200	30	80	10.0	1.80	
2N441	M	A	AJ	150	200	30	80	10.0	1.80	
2N448	GE	B	GJ	65	20	15	30	5	1.50	
2N449	GE	B	GJ	65	20	15	115	8	1.50	
2N456A	TI	C	Alloy	150*	7.0A	40	60	.43	2.60	
2N457A	TI	C	Alloy	150*	7.0A	60	60	.43	3.30	
2N464	MOT	A	AJ	150	100	45	45	.70	1.50	
2N465	MOT	A	AJ	150	100	45	45	.70	1.50	
2N467	RAY	A	AJ	150	100	35	180	1.2	2.09	
2N508	GE	A	AJ	140	100	16	112	3.5	.66	
2N514B	TI	C	AJ	150*	25A	80	60	.35	12.00	
2N525	MOT	A	AJ	225	500	45	52	2.5	1.30	
2N527	GE	D	AJ	225	500	45	52	2.5	1.30	
2N554	MOT	C	AJ	40*	3.0A	30	45	400	.60	
2N555	MOT	C	AJ	40*	3.0A	40	45	40	.60	
2N588	PHI	N	DB	30	50	15	14	250	1.43	
2N591	RCA	K	AJ	750	500	35	125	8.0	3.45	
2N600	MOT	A	AJ	200	250	30	40	30	2.85	
2N626	RCA	K	DF	30	40	60	42	40	1.44	
2N647	RCA	K	AJ	100	100	25	70	1.16	1.16	
2N652	MOT	A	AJ	200	250	45	160	3.0	2.40	
2N653	MOT	A	AJ	200	250	30	40	2.0	1.65	
2N655	MOT	A	AJ	200	250	30	160	3.5	1.95	
2N741	MOT	H	SI	30	40	60	42	40	1.44	
2N797	SYL	C	AJ	200	15A	50	40	3	1.70	
2N1008	TI	H	MESA	300	50	15	40	300	2.48	
2N1010	TI	A	MESA	300	50	15	40	300	2.48	
2N1038	TI	A	MESA	150	50	12	30	360	1.45	
2N1086	SYL	B	AJ	180	100	20	75	80	2.18	
2N1086A	SYL	B	AJ	180	100	20	75	80	2.18	
2N1101	SYL	B	AJ	180	100	20	40	15	.75	
2N1102	SYL	B	AJ	180	100	20	40	15	.75	
2N1121	GE	B	GJ	65	20	15	115	9	1.57	
2N1143	TI	F	MESA	750	100	25	32	480	6.38	
2N1177	RCA	S	DF	1	30	100	140	.83	.83	
2N1178	RCA	S	DF	1	30	40	140	.81	.81	
2N1179	RCA	S	DF	1	30	80	140	.81	.81	
2N1180	RCA	S	DF	1	30	80	140	.81	.81	
2N1185	MOT	A	AJ	200	50	45	150	3	2.74	
2N1191	MOT	A	AJ	175	200	40	40	1.5	1.12	

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Transistors, Diodes and Rectifiers



EXPLANATION OF COLUMN HEADINGS AND SYMBOLS (Con'd from Previous Page)

P_{IV}—peak inverse voltage
I_m—max. av. rectified current
I_{mr}—maximum reverse current
I_{msr}—max. surge current

I_{fw}—min. forward current
V_z—zener voltage
I_t—test current
V_p—forward voltage drop

I_{GT}—max. gate current to trigger
T_j—junction temperature
 See previous page for structure symbols. *Indicates NPN type.

Type No.	Mfr.	Fig.	Design of Structure	P or P _t M or W or	I _m	BV _h	h _{FE}	I _{ab} or I _h Mc	EACH	Type No.	Mfr.	Fig.	Design of Structure	P or P _t M or W or	I _m	BV _h	h _{FE}	I _{ab} or I _h Mc	EACH
192	MOT	A	AJ	175	200	40	75	2.0	1.12	2N1638	RCA	K	DF	1	34	75	40	56	.68
193	MOT	A	AJ	175	200	40	160	1.50	1.50	2N1639	GE	A	DF	1	34	75	40	3.20	.20
1264/33	SYL	A	AJ	80	10	20	25	3.0	.59	2N1671 A	GE	A	St. Switch	450	25	20	30†	.90	.99
1266	SYL	A	AJ	80	10	20	25	3.0	.59	2N1694	GE	A	St. Switch	450	25	20	30†	.90	.99
1273	SYL	A	Alloy	150	150	15	50	2.0	.67	2N1745	PHI	C	DF	60	50	20	33†	1.83	1.83
1274	T	A	Alloy	150	150	25	50	2.0	.69	2N1906	RCA	C	DF	50*	10A	100	125	7.5	6.60
1300	RCA	A	MESA	150	100	13	50	40	1.16	2N2078	MOT	D	AJ	170*	15A	40†	70	10k†	2.65
1372	T	J	Alloy	150	300	25	60	3.0	.50	2N2147	RCA	C	DF	12.5*	5A	75	150	4	2.06
1303	T	J	Alloy	150	300	30	50	3.0	.50	2N2148	RCA	C	DF	12.5*	5A	60	80	4	1.58
1304	T	J	Alloy	150	300	25	70	5.0	.61	2N2160	GE	R	unjunction, 450 mw. Int. Base Res. 8 KΩ	15	50	40	135	150	1.49
1305	T	J	Alloy	150	300	30	150	15	1.12	2N2188	T	J	MESA	125	50	60	135	125	1.27
1309	T	J	Alloy	150	300	25	80	2.0	.72	2N2189	T	J	MESA	125	50	60	135	125	1.64
1370	T	A	Alloy	210	200	25	45	2.0	.72	2N2190	T	J	MESA	125	50	60	135	125	1.47
1371	T	A	Alloy	250	200	45	45	2.0	1.20	2N2191	T	J	MESA	125	50	60	135	125	1.86
1373	T	A	Alloy	250	200	25	70	2.0	1.02	2N2217	MOT	A	*DJ	800	150	60	60†	400 ft.	5.85
1374	T	A	Alloy	250	200	12	200	2.0	1.29	2N2218	MOT	A	*DJ	800	150	60	120†	400 ft.	5.85
1380	T	A	Alloy	250	200	12	100	2.0	.67	2N2219	MOT	A	*DJ	800	150	60	300†	400 ft.	6.75
1381	RCA	F	AJ	80*	10	20	25	5.0	2.25	2N2270	RCA	C	PLANAR	5*	10A	60			2.06
1385	GE	A	AJ	200	200	35	70	4	.99	2N2613	RCA	K	AJ		10	13	125	10	.59
1524	RCA	K	DF	80	1	24	60	33	.51	2N2614	RCA	K	AJ		50	20	160	10	.54
1525	RCA	F	AJ	80	1	24	60	33	.51	CK721	RAY	B	AJ	180	10	15		0.8	2.40
1526	RCA	F	AJ	80	1	24	130	33	.54	CK722	RAY	B	AJ	180	10	15		0.6	9.0
1530	MOT	H	AJ	90*	5.0A	60	30†	10†kc	2.25	CK768	RAY	B	AJ	150	100	15		3.5	1.50
1605	T	A	*AJ	150	100	25	40	12	1.09	MM719	MOT	A	*DJ	3*	60	40†	400 ft.	4.50	
1632	RCA	K	DF	80	1	34	80	45	.59	MM799	MOT	C	*DJ	20*	55	10†	200 ft.	48.75	
1637	RCA	K	AJ	80	1	34	80	45	.88	MM800	MOT	C	*DJ	25*	55	10†	200 ft.	66.75	
										MM801	MOT	C	*DJ	4*	55	10†	200 ft.	14.25	

GENERAL-PURPOSE SILICON RECTIFIERS

Type No.	Fig.	Mfr.	P _{IV} V.	I _o @ 25°C.	I _{mr} Ma @ 25°C.	I _h (A) @ 25°C.	EACH		
191	M	GE	100	150	55	1.4	55	25	.85
1538	M	RCA	200	750	25	30	150	15	.53
1547	M	RCA	600	150	50	35	150	15	1.19
1541	N	M	50	600	150	50	325	20	2.48
1492	N	GE	600	750	25	30	125	15	1.19
1692	M	GE	100	600	50	50	100	20	.51
1693	M	GE	200	600	50	50	100	20	.78
1695	M	GE	400	600	50	50	100	20	1.16
1763	M	RCA	400	500	100	10	25	6	.58
1764	M	RCA	500	500	100	10	25	6	.69
2070	P	T	400	750	25	10	25	6	1.49
2071	P	T	600	750	25	10	25	6	1.24
2488/F6	M	RCA	800	750	100	.01	25	30	.67
4356	M	MOT	50	1.0A	75	.01	25	30	.45
44001	M	MOT	100	1.0A	75	.01	25	30	.49
44002	M	MOT	200	1.0A	75	.01	25	30	.60
44003	M	MOT	400	1.0A	75	.01	25	30	.67
44004	M	MOT	600	1.0A	75	.01	25	30	.96
44005	M	MOT	800	1.0A	75	.01	25	30	2.55
44006	M	MOT	1000	1.0A	75	.01	25	30	5.10
150	R	ST	360	1500	100	2.0	25	300	.89
500/IN1084	R	ST	400	500	2.0	2.0	25	300	1.48
R322	S	MOT	50	18000	150	2.0	25	300	.66
R322R	S	MOT	100	18000	150	2.0	25	300	.72
R323	S	MOT	100	18000	150	2.0	25	300	.72
R323R	S	MOT	200	18000	150	2.0	25	300	1.08
R324	S	MOT	400	18000	150	2.0	25	300	1.48

DIODES FOR VARIED APPLICATIONS

Type No.	Fig.	Mfr.	P _{IV}	Max. Inv.	I _{fw}	Description	EACH
134A	RAY	75	.035	@ 10V	5	Ge; Gen. purp.	.32
135	K	SYL	30	@ 10V	7	Ge; Gen. purp.	1.58
135A	K	SYL	50	@ 10V	7	Ge; Matched pair	.30
1364	K	SYL	25	Noise, 14 db max		Ge; Vd. det.	

TRANSISTOR BOOKS

INTERNATIONAL TRANSISTOR SUBSTITUTION GUIDE-BOOK. By K. A. Pullen, Jr. (Rider). Lists 4500 direct substitutions between transistors of U.S. and foreign makes. 56 pages 5½x8½". 7 K 799. Postpaid in U.S.A. **1.47**

TRANSISTOR THEORY AND CIRCUITS MADE SIMPLE. By L. Pollack (AMECO). Concise, simple presented discussion of transistor theory and operation. 19 circuits. 124 pages. 6x9". 7 K 793. Postpaid in U.S.A. **1.20**

HANDBOOK OF TRANSISTOR FUNDAMENTALS. By M. S. Giver (Allied Radio). 64 pages. 6x9". 7 K 899. Postpaid in U.S.A. **35¢**

DIODES FOR VARIED APPLICATIONS (Cont'd.)

Type No.	Fig.	Mfr.	P _{IV}	Max. Inv.	I _{fw}	Description	EACH
IN82	L	SYL	5	Noise, 16 db max		Ge; UHF mixer (to 1000 mc)	.70
IN82A	L	RAY	5	Noise, 14 db max		Ge; UHF mixer (to 1000 mc)	.92
IN90	K	HA	60	5 @ 50V	5	Ge; Gen. purp.	.38
IN294	K	SYL	60	10 @ 10V	50	Ge; Gen. purp.	.34
IN295	K	GE	60	18 @ 10V		Ge; Gen. purp.	.35

MOTOROLA ZENER DIODES (P_t ¼ watt @ 25° C.)

Type No.	V _z @ I _t	I _t	Impedance	EACH
1N3680B	11	10.5	9.5	3.05
1N3681B	12	11.5	11.5	
1N3682B	13	9.5	13.0	
1N3683B	15	8.5	16.0	
1N3684B	16	7.8	17.0	
1N3685B	18	7.0	21.0	3.35
1N3686B	20	6.2	25	
1N3687B	22	5.6	29	
1N3688B	24	5.2	33	
1N3689B	27	4.6	41	
1N3690B	30	4.2	49	3.35
1N3691B	33	3.8	58	
1N3692B	36	3.4	70	
1N3693B	39	3.2	80	
1N3694B	43	3.0	93	
1N3695B	47	2.7	105	3.35
1N3696B	51	2.5	125	

MOTOROLA SILICON CONTROLLED RECTIFIERS

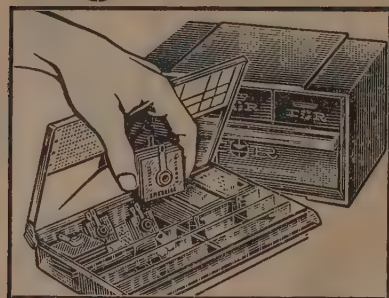
Type No.	I _F (A)	P _{IV} (V)	V _F (V)	I _{GT} ma.	T _j °C.	I _{sur} @ T _j	EACH
MC R808-1	18	25	0.8	65	100	225 A	4.50
MC R808-2	18	50	0.8	65	100	225 A	5.25
MC R808-3	18	100	0.8	65	100	225 A	6.00
MC R808-4	18	200	0.8	65	100	225 A	7.50
MC R808-5	18	300	0.8	65	100	225 A	12.75
MC R808-6	18	400	0.8	65	100	225 A	18.00



MOTOROLA TRANSISTOR MOUNTING KITS

Provide hardware for correctly chassis mtg. TO-3 power transistor types and 50-watt zener diodes. 3oz.

Type No.	Insulating Washer	Heat Sink	EACH
MK-10	Teflon-Coated fiberglass	No	.23
MK-16	Mica	No	.23
MK-20	Anodized Aluminum	No	.35
MS-19	Teflon	Yes	2.25
MS-15	Mica	Yes	2.25



K199 TRANSISTORIZED AUTOMOTIVE IGNITION SYSTEM COMPONENTS KIT

Specialty-priced kit provides two components essential to the building of any transistorized ignition system: 2—30-volt zener diodes and 1—25 amp power rectifier. For use with any car, truck or boat. Advantages that are offered by a transistorized ignition system include: faster starts in hot or cold weather, improved fuel economy, greater speed and smoother acceleration under all driving conditions. Increases your engine power up to 20%; relieves points of high current load—points and plugs last up to 50,000 miles! Shpg. wt., 3 oz.

4 U 021.....7.50

AUTOMOTIVE ALTERNATOR SILICON RECTIFIERS



Designed specifically for automobiles in which alternators furnish electrical power. Exact replacements for alternator rectifiers in all Chrysler corporation cars since 1960: Type JJ1010 replaces Mopar Types 2095502 and 2095332; JJ1020 replaces 2095506 and 2095331.

Easy to install. Supplied with test circuit and mounting instructions in each rectifier package. Wt., 3 oz.

Stock No.	Mfr's Type	Case	EACH
4 U 028	JJ1010	Neg.	1.60
4 U 029	JJ1020	Pos.	1.60

LOW-COST SILICON RECTIFIERS

- as low as **70¢**
- Silicon "Lemon Drop" Type
 - 400 PIV, 140 VRMS Input
 - Economical and Dependable

Economical "Lemon Drop" silicon rectifiers. Both types have 400 volts peak reverse voltage, 140 volts RMS input. Symbols: I_F , DC output; I_{sur} , max. surge current. 3 oz.

Mfr's Type	I_F (Ma)		I_{sur} (A)	EACH
	Res.	Cap.		
2E4	350	250	2	70¢
5E4	650	450	5	75¢

SILICON TOP-HAT AND KIT

SD-500 Silicon Top-Hat Rectifier. Hermetically sealed. Wires in or clips in. Ratings: 400 volts PIV; 140 V VRMS input; DC Output (@ 50°C), to res. load, 750 ma; to cap. load, 650 ma; Max. Surge Current, 5 amps. Wt., 3 oz.

S D-500.....EACH 1.05

SD-500-92 Silicon Top-Hat Rectifier Kit. Package of 2 hermetically sealed, popular SD-500 silicon top-hat rectifiers, above. 5-amp, 400 PIV, 140 VRMS, 750 MA. Kit also includes diode conversion hardware and complete, easy-to-follow instructions for installation. Wt., per kit of 2, 6 oz.

S D-500-92.....PER KIT 2.30

1000 MA SUBMINIATURE SILICON RECTIFIERS



These new subminiature silicon rectifiers provide remarkably high current ratings for their small size. Max. diameter is only .140". Feature a full-rated 1000 ma DC output @ 50°C over a peak reverse voltage range from 200 to 1000 volts. Av. shpg. wt., 3 oz.

Mfr's Type	PIV (V)	EACH
10D2	200	.73
10D4	400	.87
10D6	600	1.12
10D8	800	2.65
10D10	1000	3.25

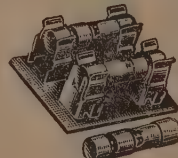
"5A SERIES" ALL-CIRCUIT HIGH-POWER SILICON RECTIFIERS



High current, high surge rectifiers. Type 5A4-91 features 400 volts PIV and 140 volts RMS input; Type 5A6, 600 volts PIV and 210 VRMS input to cap. load; 420 VRMS. to res. load. Symbols: I_F , DC output; I_{sur} , max. surge current. 3 oz.

Mfr's Type	I_F (Ma)		I_{sur} (A)	EACH
	Res.	Cap.		
5A4	850	750	50	.87
5A6	650	500	50	1.12

"PLUG-IN" ALL-CIRCUIT SILICON RECTIFIERS



Ruggedized silicon, diffused junction "plug-in" rectifiers for fast, easy insertion into radio-TV, motor control, audio amplifier, industrial power supply and all other circuits using clip-type

rectifier holders. Both types feature 400 volts peak reverse voltage and 140 volts RMS input. Exceptionally low voltage drop across unit. Symbols: I_F , DC output; I_{sur} , max. surge current. Less mtg. clips. 3 oz.

Mfr's Type	I_F (Ma)		I_{sur} (A)	EACH
	Res.	Cap.		
1MA4	350	250	2	.85
5MA4	850	750	50	1.30

SELENIUM DUAL DIODES

Reliable, ruggedly constructed dual diodes for easy mounting into mass produced chassis assemblies. Type DD04 has common cathode; Type DD05 is series connected; Types DD06 and DD07 have common anode. Wt., 3 oz.

Mfr's Type	Replaces			EACH
	GE	IRC	IT&T	
DD04	6GC1	D4	K1615	.54
DD05	6GD1	D5	K1616	.54
DD06	6GX1	D6	K1617	.54
DD07		D7		1.25

K250 RECTIFIER AND DIODE BENCH CABINET

A Serviceman's Fingertip Assortment of 31 Most Popular Rectifiers and Diodes

A new time and money-saving assortment of 8 most commonly used types of rectifiers and diodes—31 in all. Contains 6 selenium stacks (65-500 ma), 8 germanium diodes, 2 dual diodes, 7—5A Series all-circuit silicon rectifiers, 4 plug-in types (400-600 PRV), plug-in kit, top-hat kit and 2 "lemon drop" silicon rectifiers. Permanent 4-drawer cabinet, 5½x7x10". 3 lbs.

4 U 019.....24.95

K150 RECTIFIER REPLACEMENT CADDY KIT

Handy Assortment of 16 Rectifiers—Fits Radio-TV Serviceman's Tube Caddy

A durable, compartmentalized plastic box containing 16 rectifiers of 10 different types: 6 selenium stacks (65-500 ma), 4 type 5A Series universal silicon rectifiers, 4 plug-in types (400-600 PRV), 1 plug-in kit, 1 top-hat kit and 2 "lemon drop" silicon rectifiers. 6½x9x1¼" plastic case fits a Radio-TV serviceman's tube caddy. Shpg. wt., 1 lb.

4 U 020.....14.95

10DB8A EUROPEAN SET REPLACEMENT RECTIFIER

Serves as a universal replacement for European radios, TV, hi-fi, amplifiers, tape recorders and other electronic equipment using a single phase bridge rectifier circuit. Adequate rating for virtually all sets, yet small enough for even the most compact equipment. Features 800 volts peak inverse voltage, 250 volts RMS input and 250 ma DC output. Wt., 3 oz.

10 DB8A.....3.60

DIODE ASSORTMENTS

20-Price Assortment. A handy assortment containing 5 each of the 4 most popular germanium diodes used in today's radio and TV sets. An ideal diode assortment for inclusion in the radio and TV serviceman's tube caddy. Includes 5 each of Types 1N34A, 1N60, 1N64 and 1N295. Offered at a special assortment savings price, these diodes would actually cost \$7.10 if purchased separately. Supplied in a convenient storage box. 2 lbs.

4 U 197.....5.95

28-Price Assortment with Cross Reference Chart. All-purpose germanium diode assortment including 12 different ratings. Contains 5 each of the 4 popular types mentioned in assortment above, 1N34A, 1N60, 1N64 and 1N295, plus one each of the following Types: 1N48, 1N82A, 1N67A, 1N87A, 1N294, 1N541, 1N542 and 1N636. Also a complete cross reference for easy substitutions. 3 lbs.

4 U 198.....9.95

MINIATURE GERMANIUM DIODES

For low current applications: blocking, bias passing, etc. Hermetically sealed. 3 oz.

Jedec Type	PIV (V)	Rated (Ma @ V)	EACH
1N34A	-50	0.500 @ -50	40¢
1N48	70	0.833 @ -50	34¢
1N60	40	0.800 @ -30	29¢
1N64	25	0.200 @ -10	38¢
1N67A	80	0.050 @ -30	40¢
1N82A	25		91¢
1N87A	30	0.025 @ -15	35¢
1N294	70	0.800 @ -50	52¢
1N295	50		35¢
1N541	45	0.350 @ -45	40¢
1N542		(2 1N541's)	90¢
1N636A	60		38¢

LOW-COST SELENIUM DIODES

For miniaturized, low current circuits: bias supplies, computers, sensitive relays, switching, hearing aids, etc. Wt., 3 oz.

Jedec Type	PIV (V)	Output (Ma)	EACH
1N1625A	48	0.5	37¢
1N1630	192	3.75	56¢
1N1632	288	3.75	56¢
1N1635	48	12.5	37¢
1N1639	240	12.5	52¢
1N1642A	144	28	45¢

Rectifiers, Zener Diodes, and Photocells



LOW-COST ZENER DIODES



de selection of extremely low cost 1 to 10-watt zener diodes. Especially de for commercial and replacement All have 10% tolerance. In table, V_z minimal zener voltage, I_T is test current I/min. Av. shpg. wt., 3 oz.

B 1-WATT DIODES

Type No.	V_z (V)	I_T (ma)	EACH
1100	3.9	50	1.90
1104	5.6	35	1.90
1108	8.2	25	1.90
1110	10	20	1.90
1114	15	13	1.90
1118	22	9	1.90
1122	33	5	1.90
1126	47	5	1.90
1130	68	5	1.90
1134	100	5	1.90
1138	150	5	2.25
1140	180	5	2.25

A 10-WATT DIODES

Type No.	V_z (V)	I_T (ma)	EACH
1300	3.9	500	3.50
1304	5.6	350	2.90
1308	8.2	250	2.90
1310	10	200	2.90
1314	15	140	2.90
1318	22	90	2.90
1322	33	60	2.90
1326	47	45	2.90
1330	68	30	2.90
1334	100	20	2.90
1338	150	15	2.90
1340	180	10	4.00

ZENER DIODE EXPERIMENTER KIT

e K546. An outstanding value—diodes purchased separately are worth over \$30.00. al for labs, schools, scientific projects, erimenters, hobbyists. Broad selection 12 diodes includes 1-watt, 3/2-watt and watt units covering 3.9 to 27-volt range. are $\pm 10\%$ tolerance. Values marked easy reference. Includes application a and reference material to simplify uit development. Plastic storage cabi- is 5 1/4 x 7 1/2 x 1 1/4". Shpg. wt., 5 lbs.

009. 6.50

LOW-VOLTAGE STACKS

miniature seleniums for power applications in filament supplies, sold and relay power sup- es, 6 and 12-volt battery rgers, etc. All are rated 25 v. rms max., except B, 130 v. rms max. H in e No. indicates single-plate half-wave; indicates full-wave bridge rectifier. Av. shpg. wt., 2 oz.

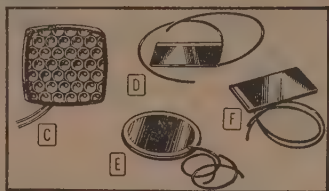
Stock No.	Mfr's Type	Max. DC Ma.	Size	E.A.
822	Q1H	65	4 3/4 x 4 3/4 x 1/16"	.36
823	A1H	100	1 x 1 x 3/16"	.38
824	B1H	150	1 1/8 x 1 1/8 x 3/16"	.40
825	C1H	250	1 1/2 x 1 1/2 x 3/16"	.42
826	M1H	500	2 x 2 x 3/16"	.56
827	Q1B	100	4 3/4 x 4 3/4 x 3/16"	.84
828	Q4B	100	1 1/8 x 1 1/8 x 3/4"	1.56
829	A1B	180	1 x 1 x 3/4"	1.22
830	B1B	300	1 1/8 x 1 1/8 x 3/4"	1.28
831	C1B	600	1 x 1 x 1 1/2 x 3/4"	1.46
832	M1B	1200	2 x 2 x 3/4"	1.72



SOLAR CELL AND PHOTOCELL EXPERIMENTER KIT

Type K-421. For experimenters, hobbyists, engineers. May be used for numerous experimental applications including the powering of transistor radios, building light meters, operating small motors from sunlight, etc. Contains seven different selenium, silicon, and cadmium-sulfide solid-state photocells similar to figures C, D, E, and F, at right. Kit also contains a complete instruction manual with circuit diagrams and experiments, plus an "Experimenter Handbook," 4 lbs.

7 E 660. 5.95



EXPERIMENTAL PHOTOCELLS

Selenium cells have spectral response similar to that of human eye. Silicon cells have high output. All in molded plastic cases (Fig. C) except Type B2M (Fig. F) which has mtg. bracket. All silicon except "selenium," cadmium sulfide. With 24-page Experimenter's Handbook, 3 oz.

Stock No.	Type No.	Output		EACH
		Volts	Ma.	
7 E 876	*B2M	3-4	2	1.50
7 E 877	*B3M	3-4	1 1/2-2 1/2	1.75
7 E 879	S1M	3-45	10-16	2.25
6 E 494	S3M	-6-.85	10-16	3.95
6 E 495	S5M	-6-.85	18-25	4.95
7 E 878	ICS-120MG	120 v., @ 200 ma.		2.35

HERMETIC AND QUAD SEALED SILICON POWER RECTIFIERS

Wide variety of sealed stud-mounting silicon rectifiers. In table PIV is peak inverse voltage; I_s is average rectified forward current. 6, 12 and 25-30 amp types are like illustration at right. 45-150 and 70-250 amp types not illustrated. Av. shpg. wt., 3 oz.



6 AND 12-AMP TYPES

Type No.	PIV (V)	Input (V. rms.)	I_s (A)	EACH
6 F 5	50	35	6	2.48
6 F 10	100	70	6	2.85
6 F 20	200	140	6	4.28
6 F 30	300	210	6	5.85
6 F 40	400	280	6	7.88
6 F 50	500	350	6	9.23
12 F 10	100	70	12	2.74
12 F 20	200	140	12	4.32
12 F 30	300	210	12	6.35
12 F 40	400	280	12	8.34
12 F 50	500	350	12	12.75
12 F 5	50	35	12	2.47

25 TO 35-AMP TYPES

Type No.	PIV (V)	Input (V. rms.)	I_s (A)	EACH
25 HB 5	50	35	25	3.27
25 HB 10	100	70	to	3.85
25 HB 15	150	105	35	4.58
25 HB 20	200	140	Amps	5.25
25 HB 30	300	210	Depending on Type of Cooling Used	6.35
25 HB 40	400	280		6.70
25 HB 50	500	350		7.30

45 TO 150-AMP TYPES

Type No.	PIV (V)	Input (V. rms.)	I_s (A)	EACH
45 L 5	50	35	45	7.75
45 L 10	100	70	to	9.55
45 L 20	200	140	150	14.20
45 L 30	300	210	Amps	20.80
45 L 40	400	280	Depending on Type of Cooling Used	29.80
45 L 50	500	350		37.80
45 L 60	600	420		47.75

70 TO 250-AMP TYPES

Type No.	PIV (V)	Input (V. rms.)	I_s (A)	EACH
70 U 5	50	35	70	12.40
70 U 10	100	70	to	14.90
70 U 20	200	140	250	20.80
70 U 30	300	210	Amps	27.10
70 U 40	400	280	Depending on Type of Cooling Used	39.65
70 U 50	500	350		48.00
70 U 60	600	420		58.70

COMPACT SELENIUM STACKS

Low cost, high density selenium rectifiers for original equipment and replacement use. Offer long life, stable characteristics, negligible leakage. All are rated 150 v. rms max. input. With mounting bracket and hardware. Av. wt., 3 oz.

Stock No.	Type No.	DC Output (Ma)	E.A.
4 U 010	T065/075	0-75	.48
4 U 011	T075/150	75-150	.69
4 U 012	T200/300	150-300	1.08
4 U 013	T350/400	300-400	1.25
4 U 014	T450/500	400-500	1.32
4 U 015	T550/650	500-650	1.74

SILICON HIGH-VOLTAGE TUBE REPLACEMENT RECTIFIERS

Silicon rectifier plug-ins. Specifically designed to replace existing vacuum tube and mercury-vapor rectifier tubes. Offer longer life, minimum heat generation, instant operation. Rugged, compact, withstand high environmental temperatures. Wt., 3 oz.

Type No.	JDEC No.	Replaces Tube Type	EACH
ST-1	1N2630	6X4, 6063, 6202	13.00
ST-1A	1N570	MIL 6X4, MIL 12X4, 5AW4, 5AX4, 5AZ4, 5AU4, 5W4	30.00
ST-2	1N2631	5Y3, 5AU4, 5AW4, 5AZ4, 5T4, 5U4, 5V4, 5W4, 5Z4, 5963, 6087, 6106	13.00
ST-2A	1N2632	5R4	20.45
ST-3	1N2633	0Z4, 5X4, 5V4, 6AX5, 6X5	13.00
ST-4	1N2634	80, 82, 83, 83V, 5Z3	13.00
ST-5	1N2635	6X4, 12X4 (high altitude types)	14.40
ST-6	1N2636	84/6Z4	14.40
ST-7A		866, 866A, 3B28	28.25
ST-8		0Z4, 6X5	13.00
ST-9		8008	137.50
ST-10		872A	137.50
ST-13		12BW4, 6BW4	13.00
ST-14		5AC4, 5AW4, 5AZ4, 5T4, 5U4, 5V4, 5W4, 5Y3, 5Z4	5.95

BATTERY CHARGER REPLACEMENTS

Universal replacement rectifiers for 6 and 12-volt battery chargers. Max. AC input is 16.50-16.5 v. rated 30 amps without forced air cooling, 100 amps with 800 LFM cooling.

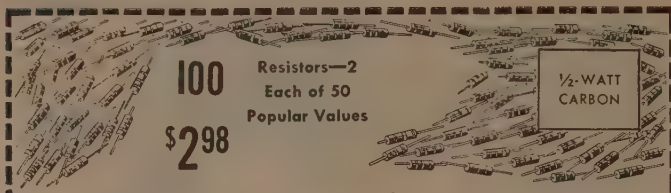
Stock No.	Type No.	DC Output (A)	EACH
4 U 748	JD4346B*	30-100*	16.75
4 U 016	JD4346D	30-100*	16.75
4 U 798	JD116K	2	1.20
4 U 799	JD117K	3	1.80
4 U 749	JD241K	6	2.46
4 U 017	JD240K	9	3.40

BATTERY CHARGING RECTIFIER

Type BC101. 100 amp unit for new fast chargers. Consists of two silicon cells mounted on a 4-6" cooling fin. For center tap circuits, rated 100 amps, 6 or 12 v., with 750 LFM fan cooling. Natural convection cooling rating is 40 amps. Ambient temperature, 0° C to 130° C. 3 oz.

4 U 018. 15.00

Selected Resistor and Volume Control Bargains



100
Resistors—2
Each of 50
Popular Values
\$2.98

1/2-WATT
CARBON

Save on this economy-priced package of 100 1/2-watt, 10% carbon composition resistors in 50 of the most popular values. Get in on this truly outstanding bargain—servicemen, hobbyists and experimenters should order several packages now and have a complete inventory on hand. Each package includes 2 each of the following values (ohms): 10, 27, 33, 39, 47, 68, 100, 150, 180, 220, 270, 330, 390, 470, 560, 680, 1000, 1500, 2700, 3300, 3900, 4700, 5600, 6800, 10K, 15K, 18K, 27K, 33K, 39K, 47K, 56K, 68K, 100K, 150K, 270K, 330K, 390K, 470K, 560K, 680K, 1 meg, 3.3 meg, 3.9 meg, 4.7 meg, 5.6 meg, 6.8 meg, 10 meg, 15 meg, 18 meg, 22 meg. Shpg. wt., 1 lb.

28 M 554-D, Pkg. of 100 PER PKG. 2.98

50 Resistors
\$1.59

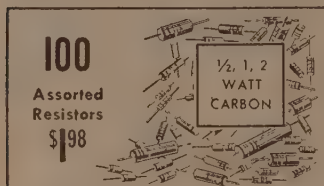
PKG. OF 50 RESISTORS. Same bargain-value package of 1/2-watt resistors as listed above, but consists of 25 different values. Includes 2 each of the following values (ohms): 10, 33, 47, 68, 100, 220, 470, 560, 680, 1000, 2700, 3300, 3900, 4700, 5600, 6800, 10K, 33K, 39K, 47K, 100K, 330K, 390K, 470K, 1 meg. Shpg. wt., 10 oz.

28 M 555-D, Pkg. of 50 PER PKG. 1.59

25 Resistors
89¢

Pkg. of 25 Resistors. Another Allied blockbuster value. As above, but includes 1 each of the following values (ohms): 10, 33, 47, 68, 100, 220, 470, 560, 680, 1000, 2700, 3300, 3900, 4700, 5600, 6800, 10K, 33K, 39K, 47K, 100K, 330K, 390K, 470K, 1 meg. Shpg. wt., 6 oz.

28 M 556-D, Pkg. of 25 PER PKG. 89¢

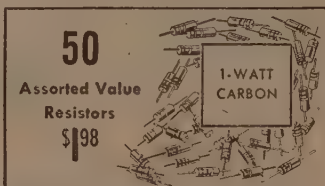


100
Assorted
Resistors
\$1.98

1/2, 1, 2
WATT
CARBON

Here's a terrific bargain—a package of 100 top-quality 1/2, 1 and 2-watt carbon resistors at a price of less than 2¢ per resistor! Products of top-name manufacturers, such famous brands as IRC are included. All are clearly color-coded for easy identification of resistance and wattage values. Each package contains 70 1/2-watt types, 20 1-watt types, and 10 2-watt types. Buy several packages now at this low price and build up a complete resistor inventory—and end forever those annoying and costly delays on building projects and service jobs due to not having the correct resistor value on hand. Shpg. wt., per pkg., 5 oz.

39 A 296-D, Pkg. of 100 PER PKG. 1.98

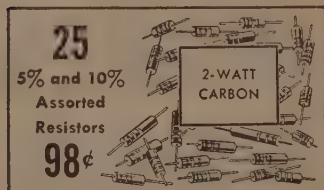


50
Assorted Value
Resistors
\$1.98

1-WATT
CARBON

Here's a real top-quality, money-saving assortment of 50 IRC and other famous-name 1-watt carbon resistors. Each package contains two resistors in each of the following values (ohms): 10, 22, 27, 33, 47, 68, 1800, 2700, 3300, 4700, 5600, 10K, 22K, 68K, 100K, 150K, 220K, 330K, 470K, 820K, 1 meg, 3.3 meg, 6.8 meg, 12 meg, and 22 meg. All resistors are fully color-coded to clearly indicate resistance values. All have ±10% capacity tolerance. Buy several packages of these much called-for resistors now, at this amazing low price, and build up a convenient, time-saving inventory. Shpg. wt., per pkg., 3 oz.

39 A 698-D, Pkg. of 50 PER PKG. 1.98



25
5% and 10%
Assorted
Resistors
98¢

2-WATT
CARBON

Here's your chance to stock up on those important 2-watt carbon resistors in the most popular and much-needed values—and at a price that can't be beat anywhere—less than 4¢ per resistor! Package of 25 includes 1 each of the following (ohms): 180, 220, 470, 2700, 3900, 12K, 27K, 47K, 82K, and 390K, plus 15 other resistance values. Included are 5% and 10% tolerance types. Buy several packages and build up a convenient inventory. Shpg. wt., per pkg., 8 oz.

39 A 914-D, Pkg. of 25 PER PKG. 98¢



10
Popular Value
Volume Controls
98¢

Package of 10 popular value, standard size volume controls at an amazingly low price—less than a dime a control. This handy assortment includes 1 each of the following values (ohms): 500, 2000, 250K, 1 meg and 5 meg, plus 5 other assorted values. Included are the latest tab mounting types, as well as standard threaded bushing types with a variety of shaft lengths. Buy several packages now at this low price! Shpg. wt., per pkg., 12 oz.

28 M 551-D, Pkg. of 10 PER PKG. 98¢

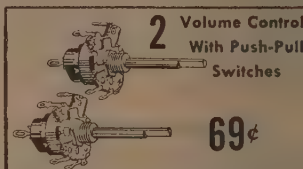


100
Assorted
Insulated
Resistors
\$1.89

1/2 AND 1
WATT
CARBON

Build up your resistor inventory at a fraction of what it would normally cost. This package of 100 assorted 1/2-watt and 1-watt insulated carbon resistors includes 50 1/2-watt types and 50 1-watt types in a wide variety of resistance values to cover almost any requirement. All are American-made and have standard RETMA (EIA) color coding for easy identification of resistance and wattage values. Buy several packages at this amazingly low price and end forever those costly and time-consuming delays caused by not having the proper value resistor on hand. Shpg. wt., 6 oz.

28 M 550-D, Pkg. of 100 PER PKG. 1.89

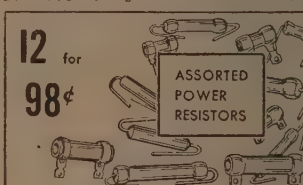


2 Volume Controls
With Push-Pull
Switches
69¢

Here's an outstanding value these quality 1-megohm volume controls with push-pull switch are being offered at! Sold in pairs, buy several pairs and stock up on these important items for all your future requirements.

Ideal as replacement units in TV sets, stereophones, etc., or as original components in new equipment. Units are ruggedly constructed for long service life. Each control has two taps. Measure 1 1/2" in diameter, have shafts 1 1/4" long. Wt., per pair, 2 oz.

39 A 916-D, Pkg. of 2 PER PKG. 69¢



12 for
98¢
ASSORTED
POWER
RESISTORS

Take advantage of this outstanding bargain offer and stock up on these much called-for power resistors! Here's a package of rugged, top-quality power resistors in the most popular resistance and wattage values offered at a price so low, each resistor costs less than a dime a piece! Buy several packages now, and have a complete inventory of these important items always on hand.

Each package includes the following resistors: 1-4700 ohm @ 3 watts; 1-15K ohm @ 4 watts; 1-4300 ohm @ 5 watts; 1-20K ohm @ 7 watts; 1-7000 ohm @ 10 watts plus seven other resistors with assorted values.

All units are ruggedly constructed to give years of dependable, trouble-free service life. All have firmly anchored leads; extremely durable and heat-resistant jackets. Shpg. wt., per pkg., 9 oz.

39 A 851-D, Pkg. of 12 PER PKG. 98¢

For complete resistor listings, see Pages 331-334 of this catalog.

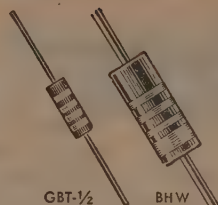
IRC Resistors and Resistor Kits

GBT and SR Fixed Composition. Choose from 10% (Table A) or 5% (Table B) tolerances. Meet or exceed MIL-R-11 specifications. With 150-100% overloads for short periods of time. EIA (RETMA) 1. Sizes GBT-1/2, 25/64x3/4", GBT-1, 9/64x1/2", SR-1/4, 1/4x3/2", SR-2, 1/2". Figure after hyphen in Type No. indicates wattage rating. Kits may be assorted for quantity price.

BWH 2-Watt Fixed Wire-Wound. Values to 1000 Ohms. Choose from (Table A) or 5% (Table B) tolerances. Rated at 2-w. to 158°F ambient temp.; 1-w. at 239°F; and 1/2-w. at 279°F. Meet MIL-R-11 specifications. Small as 1-w. composition. EIA (RETMA) coded; wide band. Inductance .04 to 4/5 µh from 0.24 to 1000 ohms. Values be assorted for quantity price.



FREE Color Code
Guide with purchase of
20 or more resistors.
Specify Stock No. 2 M 770.



10% INSULATED GBT, SR AND BWH TYPES

TYPE GBT, SR 10% FIXED COMPOSITION

Stock No.	Type and Wattage	Values See Table "A"	EACH		
			1-4	5-49	50-99
27 M 150	SR-1/4	10 Ω to 1 meg	13¢	9¢	6¢
1 M 000	GBT-1/2	2.7 Ω to 22 megs	12¢	9¢	5 1/2¢
1 M 020	GBT-1	10 Ω to 22 megs	18¢	11¢	8 1/2¢
1 M 070	SR-2	10 Ω to 22 megs	24¢	19¢	14¢

TYPE BWH 10% 2-WATT FIXED WIRE-WOUND

Stock No.	Mfr's Type	Values to 1000 Ohms See Table "A"	EACH	
			1-4	5-99
1 M 076	BWH	27 ohms thru 8.2 ohms	24¢	18¢
1 M 077	BWH	10 ohms thru 1000 ohms	18¢	15¢
		No values above 1000 ohms		

TABLE "A"—10% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs	
0.27	1.2	5.6	27	120	560	2700	12K	56K	270K	1.2	5.6
0.33	1.5	6.8	33	150	680	3300	15K	68K	330K	1.5	6.8
0.39	1.8	8.2	39	180	820	3900	18K	82K	390K	1.8	8.2
0.47	2.2	10	47	220	1000	4700	22K	100K	470K	2.2	10
0.56	2.7	12	56	270	1200	5600	27K	120K	560K	2.7	12
0.68	3.3	15	68	330	1500	6800	33K	150K	680K	3.3	15
0.82	3.9	18	82	390	1800	8200	39K	180K	820K	3.9	18
1.0	4.7	22	100	470	2200	10K	47K	220K	1 meg	4.7	22

5% INSULATED GBT, SR AND BWH TYPES

TYPE GBT, SR 5% FIXED COMPOSITION

Stock No.	Type and Wattage	Values See Table "B"	EACH		
			1-4	5-49	50-99
27 M 155	SR-1/4	10 Ω to 1 Meg	26¢	19¢	11¢
1 M 005	GBT-1/2	2.7 Ω to 22 megs	24¢	19¢	11 1/2¢
1 M 025	GBT-1	10 Ω to 22 megs	36¢	28¢	17 1/2¢
1 M 045	SR-2	10 Ω to 22 megs	48¢	37¢	23¢

TYPE BWH 5% 2-WATT FIXED WIRE-WOUND

Stock No.	Mfr's Type	Values to 1000 Ohms See Table "B"	EACH	
			1-4	5-99
1 M 078	BWH	24 ohms thru 9.1 ohms	47¢	40¢
1 M 079	BWH	10 ohms thru 1000 ohms	30¢	25¢
		No values above 1000 ohms		

TABLE "B"—5% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
0.24	1.1	5.1	24	110	510	2400	11K	51K	240K	1.1	5.1
0.27	1.2	5.6	27	120	560	2700	12K	56K	270K	1.2	5.6
0.30	1.3	6.2	30	130	620	3000	13K	62K	300K	1.3	6.2
0.33	1.5	6.8	33	150	680	3300	15K	68K	330K	1.5	6.8
0.36	1.6	7.5	36	160	750	3600	16K	75K	360K	1.6	7.5
0.39	1.8	8.2	39	180	820	3900	18K	82K	390K	1.8	8.2
0.43	2.0	9.1	43	200	910	4300	20K	91K	430K	2.0	9.1
0.47	2.2	10	47	220	1000	4700	22K	100K	470K	2.2	10
0.51	2.4	11	51	240	1100	5100	24K	110K	510K	2.4	11
0.56	2.7	12	56	270	1200	5600	27K	120K	560K	2.7	12
0.62	3.0	13	62	300	1300	6200	30K	130K	620K	3.0	13
0.68	3.3	15	68	330	1500	6800	33K	150K	680K	3.3	15
0.75	3.6	16	75	360	1600	7500	36K	160K	750K	3.6	16
0.82	3.9	18	82	390	1800	8200	39K	180K	820K	3.9	18
0.91	4.3	20	91	430	2000	9100	43K	200K	910K	4.3	20
1.0	4.7	22	100	470	2200	10K	47K	220K	1 meg	4.7	22

RESISTOR ASSORTMENTS IN COMPACT METAL CABINETS

2-WATT ASSORTMENT NO. 3A

120 2-watt resistors as follows: 7 each—8200, 10K, 22K, 47K; 5 each—1000, 6800, 15K, 100K; 4 each—100, 330, 470, 1500, 2200, 3300, 4700, 27K, 1.0 meg; 3 each—47, 82, 150, 220, 270, 390, 220K, 470K; 2 each—4.7, 10, 22, 68; 1 each—15, 27, 33, 39. With cabinet. 4 1/2 lbs. 2 M 77628.80

1/2-WATT ASSORTMENT NO. 4A

150 1/2-watt resistors as follows: 8 each—1000, 47K, 100K, 270K, 470K, 1.0 meg; 7 each—4700, 10K, 220K, 2.2 meg; 5 each—3300, 22K, 27K, 33K, 330K, 4.7 meg; 4 each—100, 470, 1500, 2200, 2700, 56K, 68K, 3.3 meg; 3 each—47, 220, 270, 10 meg. With metal cabinet. Wt., 4 1/2 lbs. 2 M 77718.00

COMBINATION ASSORTMENT NO. 6A

Complete resistor stock for AM, FM, and TV circuitry in one handy cabinet. Includes 139 IRC insulated and Type DCF precision film resistors in wattage ratings and resistance values as follows. 1/2 Watt: 4 each—1000, 47K, 100K, 270K, 470K, 1.0 meg; 3 each—4700, 10K, 220K, 2.2 meg; 2 each—47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 3300, 15K, 22K, 27K, 33K, 39K, 68K, 150K, 4.7 meg; 1 Watt: 4 each—1000, 10K, 27K, 100K, 1.0 meg; 3 each—47K, 470K, 2.2 meg; 2 each—3300, 15K, 22K, 68K, 150K, 270K; 1 each—47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 4700, 33K, 39K, 220K, 4.7 meg; 2 Watt: 1 each—47, 100, 470, 4700, 10K, 22K, 47K, Type DCF; 1 each—1000, 10K, 100K, 1.0 meg, 5 meg. With compact metal Resist-O-Cabinet. 5 lbs. 2 M 77923.22

1-WATT ASSORTMENT NO. 5A

100, 150, 220, 270, 470, 1500, 2700, 3300, 15K, 150K, 220K, 2.2 meg, 4.7 meg. 4 3/4 lbs. 2 M 77822.50



balanced resistor assortments come to you in compact "Resist-O-Cabinets." There's a practical and space-saving way to keep resistors handy. Cabinets have 4 drawers and 128 compartments. Each resistance value is in a separate compartment. Cabinet, 5 3/4 x 6 1/4 x 1 1/4".

IRC Power Resistors and Resistor Assortments



Fixed

Adjustable

WIREWOUND POWER RESISTORS

Highly-reliable, "Resistor" coated power resistors. Tolerances: fixed, $\pm 5\%$; adjustable, $\pm 10\%$. All types of 25-watt rating or higher, supplied with mtg. brackets. All rated 100 watts or less have eyelets for screw mounting plus leads, except *leads only; types rated over 100 watts have eyelets only. Specify resistance and wattage when ordering. Av. shpg. wts., 5 to 50-watt types, 4 oz.; others, 1 lb.

TABLE "A" VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	12	75	350	800	2000	5000	11K	20K	55K	95K	
1.5	15	100	400	900	2250	6000	12K	22.5K	60K	100K	
2	20	125	450	1000	2500	7000	15K	25K	65K	125K	
3	25	150	500	1100	2750	7500	15.5K	30K	70K	150K	
4	30	200	600	1200	3000	8000	15K	35K	75K	175K	
5	35	225	650	1250	3500	8500	16K	40K	80K	200K	
7.5	40	250	700	1500	4000	9000	17.5K	45K	85K	225K	
10	50	300	750	1750	4500	10K	18K	50K	90K		

MULTI-RANGE 10-WATT WIRE-WOUND RESISTORS

TYPE MR



Versatile resistors consisting of 4 separate, 0-watt elements in a single, compact unit. Eliminate the need for large resistor inventories. Each package is supplied complete with instructions for connecting element leads to provide up to 47 different resistance values within the ranges listed in the table below. Resistance value range from 0.5 ohms through 50K. Size, $1\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$ ". Shpg. wt., 3 oz. 2 per package.

Stock No.	Type	Range	PER PKG.
31 M 580	MR1	47 values from 0.5 through 15 ohms	1.20
31 M 581	MR2	47 values from 5 through 150 ohms	1.20
31 M 582	MR3	47 values from 15 through 1500 ohms	1.20
31 M 583	MR4	47 values from 500 through 15K	1.20
31 M 584	MR5	47 values from 15K through 50K	1.80

FIXED POWER RESISTORS (SEE TABLE "A" ABOVE FOR VALUES)

TYPE 1A—5-8 WATTS— $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ "

Stock No.	See Table "A" Above	EACH
MM 250	1 to 1000 except 650	52¢
MM 251	1100 to 5000 except 2750	55¢
MM 252	6000 to 10K except 8500	58¢
MM 253	12.5K to 20K except 13.5K, 16K, 18K	65¢
MM 254	22.5K* and 25K* only	68¢
MM 270	1 to 1000 except 650	57¢
MM 271	1100 to 5000 except 2750	61¢
MM 272	6000 to 10K	70¢
MM 273	11K to 20K	70¢
MM 274	22.5K to 40K	89¢
MM 268	45K and 50K only	93¢

TYPE 2C—20 WATTS— $2 \times \frac{1}{2} \times \frac{1}{8}$ "

MM 278	1 to 1000 except 1.5, 7.5, 12, 15, 20, 30, 35, 40, 125, 225, 450, 600	.68
MM 279	1200 to 5000	.70
MM 280	6000 to 10K except 8500	.83
MM 281	12.5K to 20K except 13.5K, 16K, 17.5K and 18K	.85
MM 282	25K to 40K	.99
MM 283	45K to 60K	1.15
MM 285	65K to 80K	1.37
MM 259	85K* to 100K*	1.57

TYPE 2D—25 WATTS— $2 \times \frac{1}{2} \times \frac{1}{8}$ "

MM 203	1, 2, 3, 4, 5, 10, 15, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	.72
MM 204	1500 to 5000 except 1750, 2250, 2750 and 4500	.75
MM 205	6000, 7500, 10K only	.85
MM 206	12K, 15K, 20K only	.90
MM 207	25K to 40K	1.04
MM 208	50K and 60K only	1.21
MM 209	70K and 80K only	1.42
MM 210	100K only	1.64

TYPE 4D—50 WATTS— $4 \times \frac{1}{2} \times \frac{1}{8}$ "

MM 290	1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	1.11
MM 291	1500, 2000, 2500, 3000, 4000 and 5000	1.14
MM 292	7500, 8000, 10K only	1.23
MM 293	12K, 15K and 20K only	1.35
MM 225	25K and 35K only	1.54
MM 226	50K only	1.77
MM 227	75K only	1.97
MM 228	100K only	2.13
MM 229	125K only	2.57
MM 330	150K only	2.70
MM 331	175K only	2.90
MM 332	200K only	2.89
MM 333	250K only	3.24

TYPE 6½E—100 WATTS— $6\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ "

MM 309	1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 125, 150, 250, 500, 750, 1000	1.54
MM 310	1500, 2000, 2500, 3000, 5000	1.60
MM 311	7500 and 10K only	1.73
MM 312	12K and 20K only	1.87
MM 236	25K, 30K, 40K only	2.13
MM 237	50K and 60K only	2.21
MM 238	75K only	2.45
MM 239	100K only	2.75

TYPE 10½H—200-225 WATTS— $10\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ "

MM 441	1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 250, 500, 750, 1000	2.46
MM 442	1500, 2000, 2500, 3000, 5000	2.53
MM 443	7500 and 10K only	2.79
MM 444	12K and 20K only	2.89
MM 445	25K, 30K and 40K only	2.98
MM 446	50K and 60K only	3.08
MM 447	75K only	3.26
MM 448	100K only	3.46

ADJUSTABLE POWER RESISTORS (SEE TABLE "A" ABOVE FOR VALUES)

TYPE 1¾AA—10-12 WATTS— $1\frac{3}{4} \times \frac{1}{2} \times \frac{1}{8}$ "

MM 275	1 to 1000 except 1.5, 4, 12, 30, 35, 40, 125, 225, 450, 650, 700 and 900	1.14
MM 276	1250-5000 except 1750, 2750	1.18
MM 277	6000 to 10K	1.27

TYPE 2DA—25 WATTS— $2 \times \frac{1}{2} \times \frac{1}{8}$ "

MM 284	1 to 1000 except 1.5, 4, 12, 30, 35, 40, 125, 225, 300, 450, 600, 650, 700 and 900	1.29
MM 285	1250 to 5000 except 1750 and 2750	1.32
MM 286	6000 to 10K except 8500	1.42
MM 287	12K, 15K, 20K only	1.47
MM 288	25K only	1.61

TYPE 4DA—50 WATTS— $4 \times \frac{1}{2} \times \frac{1}{8}$ "

MM 294	1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 200, 250, 300, 400, 500, 750, 800, 1000	1.68
MM 295	1250-5000 except 1750, 2750	1.71
MM 296	6000 to 10K except 8500	1.80
MM 297	12K, 15K and 20K only	1.92
MM 298	25K, 30K and 40K only	2.11
MM 299	50K and 60K only	2.29
MM 269	80K only	2.54
MM 308	100K only	2.70

TYPE 5EA—75 WATTS— $5 \times \frac{1}{2} \times \frac{1}{8}$ "

MM 211	1, 2, 3, 4, 5, 10, 25, 50, 100, 150, 250, 500 and 1000 only	1.86
MM 212	1500, 2500 and 5000	1.95
MM 213	10K only	2.09
MM 214	15K and 20K only	2.22

TYPE 5EA—75 WATTS (Cont'd)

Stock No.	Ohms	EACH
MM 215	25K, 30K and 40K only	2.41
MM 216	50K only	2.51
MM 217	75K only	2.87
MM 218	100K only	3.10

TYPE 6½EA—100 WATTS— $6\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ "

MM 312	1, 2, 3, 4, 5, 10, 25, 50, 100, 150, 250 and 500 only	2.11
MM 313	1500, 2500 and 5000	2.17
MM 314	10K only	2.30
MM 315	15K and 20K only	2.44
MM 316	25K, 30K and 40K only	2.70
MM 317	50K only	2.78
MM 318	75K only	3.19
MM 319	100K only	3.32

TYPE 10½HA—200-225 WATTS— $10\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ "

MM 377	1, 2, 3, 4, 5, 10, 25, 50, 100, 150, 250 and 500 only	3.34
MM 378	1500, 2500 and 5000	3.41
MM 379	10K only	3.59
MM 380	15K and 20K only	3.77
MM 381	25K, 30K and 40K only	3.86
MM 382	50K only	3.96
MM 383	75K only	4.14
MM 384	100K only	4.34

Extra Sliders. For adjustable resistors. 3 oz.
 2 M 600, For 1¾AA, 1.4¢
 2 M 604, For 2DA, 4DA, 1.4¢
 2 M 605, For 5EA, 6½EA, 1.4¢
 2 M 603, For 8½HA, 10½HA, 23¢

AXIAL-LEAD POWER RESISTORS



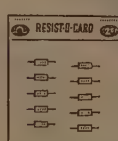
PW-5 AND PW-10

TYPE PW-5, IRC 5-watt wire-wound resistors with glass fiber core. Sealed and insulated rectangular ceramic case. $1\frac{1}{4}$ " leads. Tolerance $\pm 10\%$. Size less leads, $1\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$ ". Shpg. wt., 2 oz. Available in values 1 to 6000 ohms only. Specify value—see Table "B" below.

TYPE PW-10. As above but 10-watt rating. Size, $1\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$ ". Specify value—see Table "B" below.
 1 M 190, 25 34

TABLE "B" (OHMS)—SPECIFY VALUE									
1	20	125	600	1500	4000	8500			
2	25	150	700	1750	4500	9000			
3	30	200	750	2000	5000	10K			
4	40	250	800	2250	5500	11K			
5	50	300	900	2500	7000	12.5K			
7.5	75	350	1000	3000	7500	15K			
10	100	400	1200	3300	8000	20K			
15	120	500	1250	3500	8200	25K			

AXIAL-LEAD "RESIST-O-CARD" RESISTOR ASSORTMENTS



Type PW-6X10, IRC 10-watt resistors. 1 ea: 10, 25, 50, 100, 500, 1000, 2000, 4000, 5000.
 1 M 176, 2.5

Type PW-6X20, 5-watt resistors. 1 ea: 1.5, 7.5, 10, 20, 25, 50, 100, 150, 500, 750, 1000, 1250, 1500, 2000, 2500, 3000, 4000, 5000.
 1 M 177, 5.0

Type 20-A, 10-watt resistors. 1 ea: 50, 75, 100, 250, 500, 750, 1000, 1500, 2000, 3000, 3900, 4000, 5000, 6000, 7500, 8200, 10K, 15K.
 1 M 191, 7.2

RC and Ohmite Resistors Resistor Assortments

ALLIED COLOR-CODE GUIDE

Instant-reference color-code guide resistors. Color codes may be set to corresponding resistance values or power values may be set to show coding color. Convenient pocket-size. Guide includes tolerance and listing of EIA-JAN—10% standard values. Allied's time-saving code guide is yours FREE with your 20 or more resistors. Shpg. wt., 2 oz.

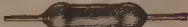


15¢

IRC RESISTORS

1/2-WATT 1% PRECISION RESISTORS—MIL-10509

DCC. Precision, unmolded, film-carbon resistors for circuits requiring high voltage ratings and low noise in instrumentation, advanced nics, and critical color TV circuits. As indicated in Table "A" below. Have low voltage coefficient, and frequency characteristics and small size. 1/2-watt rating. Meet military specification, MIL-10509, Ratings, 40°C. Be sure to fit values when ordering. Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Mil. Type	Values See Table "A" Below	EACH
M 492	DCC	RN20X	10 ohms to 99 ohms	64¢
M 493	DCC	RN20X	100 ohms to 1.96 megs	54¢

TABLE "A" VALUES—SPECIFY VALUES WANTED

ns	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	61.9	383	2150	12.1K	68.1K	383K
2	68.1	422	2370	13.3K	75K	422K
3	75	464	2610	14.7K	82.5K	464K
4	82.5	511	2870	16.1K	90.9K	511K
5	90.9	562	3160	17.8K	100K	562K
6	100	619	3480	19.6K	110K	619K
7	110	681	3830	21.5K	121K	681K
8	121	750	4220	23.7K	133K	750K
9	133	825	4640	26.1K	147K	825K
10	147	909	5110	28.7K	162K	909K
11	162	1000	5620	31.6K	178K	1.1 meg
12	178	1100	6190	34.8K	196K	1.1 meg
13	196	1210	6810	38.3K	215K	1.21 megs
14	215	1330	7500	42.2K	237K	1.33 megs
15	237	1470	8250	46.4K	261K	1.47 megs
16	261	1620	9090	51.1K	287K	1.62 megs
17	287	1780	10K	56.2K	316K	1.78 megs
18	316	1960	11K	61.9K	348K	1.96 megs
19	348					

HANDY-PAK RESISTOR ASSORTMENTS

Easy-to-Read Values
over Plastic Pockets



Single
Handy-
Pak

Designed to keep your resistor stock within quick reach and "cigar box confusion", you to remember when it's time to reorder. IRC Handy-Paks are all a uniform size and 2-watt—one pack per resistor value. Complete resistor stocks are always visible. Resistors are 10% carbon-composition types. Value and wattage are fully indicated on each convenient pack, as well as by coding and size table resistors.

"RESIST-O-CHEST"

Convenient inventory. All-metal resistor filing cabinet supplied complete with a wide assortment of resistors in "Handy-Paks." Ideal for service shop. Has hinged lid and metal separators to keep Handy-Paks orderly—right at your fingertips. Inventory list in lid helps you stock up-to-date. Size, 6 1/4 x 5 1/2 x 3 1/4. Shpg. wts: 42 and 43, 2 1/4 and 47, 2 1/2 lbs., 49A and 50A, 3 lbs.

Stock No.	Mfr's Type	No. of Resistors	No. of Values	Range Values	EACH
787	42	204 1/2-w.	37	47Ω to 10 megs	24.48
788	43	462 1/2-w.	77	10Ω to 22 megs	55.44
789	46	136 1-w.	34	47Ω to 10 megs	24.48

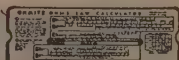
REPLACEMENT "HANDY-PAKS"

For replacement in above assortments. Standard "Handy-Pak" package of either six 1/2-watt or four 1-watt resistors, 10 tolerances. Table "A" on page 331 for values available. Specify resistance as desired. Av. shpg. wt., 6 oz.

Stock No.	Wattage Rating	Quantity Per Pkg.	PER PACKAGE
			1 to 11, EA. 12 and up, EA.
M 487	1/2	6	72¢
M 488	1	4	72¢

HANDY OHMITE OHM'S LAW CALCULATOR

Easy-to-use calculator. Solves problems involving Ohm's Law and DC power factor. Shows power, voltage and current when resistance is known. By setting to two known values, resistance can be determined. Also has parallel resistance calculator. Convenient pocket size, 9 1/2 x 3 1/2. Shpg. wt., 3 oz.



2 M 780. Varished Cardboard. 25¢
2 M 781. Deluxe Plastic Model. 1.50

OHMITE RESISTORS

FAMOUS "BROWN DEVIL" WIRE-WOUND RESISTORS

For voltage dropping, bias supplies, bleeders, etc. Have thick vitreous enamel coating for excellent heat conduction and insulation; also protects against the harmful effects of humidity. Accuracy, ±5%. Size: 5-watt units, 1 1/2 x 3/4; 10-watt units, 1 1/2 x 3/4; 20-watt units, 2 x 3/4. Tinned leads for easy soldering. Lead length, 1 1/2". Av. shpg. wt., 5 oz.



5-WATT SIZE (SEE TABLE "B" BELOW FOR VALUES)

Available in all values to 10K

Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
M MM 730	1 to 1000	52¢	M MM 732	6000 to 10K	58¢
M MM 731	1100 to 5000	55¢			

10-WATT SIZE (SEE TABLE "B" BELOW FOR VALUES)

Available in all values to 50K except 1.5 ohms.

Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
M MM 701	1 to 1000	57¢	M MM 703	12.5K to 20K	79¢
M MM 702	1100 to 5000	61¢	M MM 706	25K to 40K	83¢
	6000 to 10K	70¢	M MM 707	45K and 50K	83¢

20-WATT SIZE (SEE TABLE "B" BELOW FOR VALUES)

Available in all values except those marked * in table "B" below.

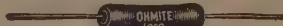
Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
M MM 720	1 to 1000	68¢	M MM 724	25K to 40K	99¢
M MM 721	1100 to 5000	70¢	M MM 725	45K to 60K	1.15
M MM 722	6000 to 10K	83¢	M MM 726	65K to 80K	1.37
M MM 723	12.5K to 20K	85¢	M MM 727	85K to 100K	1.57

TABLE "B" VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	30*	350	1250	7,000	45K	
1.5*	35*	400	1500	7,500	50K	
2	40*	450*	1750	8,000	55K	
3	50	500	2000	9,000	60K	
4	75	600*	2250	10K	65K	
5	100	700	2500	12.5K	70K	
7.5*	125*	750	3000	15K	75K	
10	150	800	3500	20K	80K	
12*	200	900	4000	25K	85K	
15*	225*	1000	4500	30K	90K	
20*	250	1100*	5000	35K	95K	
25	300	1200	6000	40K	100K	

AXIAL-LEAD WIRE-WOUND RESISTORS

Axial-lead, ceramic-core resistors. Covered with vitreous enamel to withstand high temperature. Resistance wire and terminals welded to end caps to assure excellent stability and minimum noise. Well-suited for all applications where equipment is subject to high operating temperatures and adverse conditions. Tolerance: ±5%. Wattage based on temperature rise to 300°C. 1 1/2" leads. Av. shpg. wt., 4 oz.



3 WATTS—1/8x1/4" (SEE TABLE "C" BELOW FOR VALUES)

Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
2 M MM 090	1 to 1000	59¢	2 M MM 110	5600 to 10K	66¢
2 M MM 095	1200 to 5000	62¢			

5 WATTS—1 1/8x1 1/2" (SEE TABLE "C" BELOW FOR VALUES)

Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
2 M MM 115	1 to 1000	62¢	2 M MM 145	12K to 20K	78¢
2 M MM 130	1200 to 5000	66¢	2 M MM 146	22K and 25K	82¢
2 M MM 135	5600 to 10K	70¢			

10 WATTS—1 1/8x1 1/2" (SEE TABLE "C" BELOW FOR VALUES)

Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
2 M MM 122	1 to 1000	68¢	2 M MM 125	12K to 20K	95¢
2 M MM 123	1200 to 5000	73¢	2 M MM 126	22K to 40K	1.00
2 M MM 124	5600 to 10K	84¢	2 M MM 127	47K and 50K	1.12

TABLE "C" VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1.0	15	120	500	1800	4700	8,200
1.5	20	150	600	2000	5000	9,000
2.0	25	200	700	2200	5600	10K
3.0	30	220	750	2500	6000	12K
4.0	33	250	800	2700	6800	15K
5.0	40	300	900	3000	7000	16K
7.5	50	350	1000	3300	7500	20K
10.0	75	400	1200	3900	8000	22K
12.0	100	470	1500	4000		

Resistors and Audio Controls

OHMITE "LITTLE DEVIL" RESISTORS



Molded, insulated, composition resistors in standard ratings as well as subminiature 1/10 and 1/4-watt sizes. Choose from 10% (Table "A") or 5% (Table "B") tolerances except 1/10 watt, 10% only. Meet all MIL-R-11D specs. Dissipate heat rapidly; use at full rating to 158°F. Breakdown ratings: 1/10-w, 150 v.; 1/4-w, 250 v.; 1/2-w, 350 v.; 1-w, 500 v.; 2-w, 750 v. Shpg. wt., 2 oz.

SEE TABLE "B" BELOW FOR VALUES 5% TOLERANCE RESISTORS

Stock No.	Wattage Rating	ASSORTED		
		1-4 EA.	5-49 EA.	50-U.P.
2 MM 455	1/4	26¢	22¢	14¢
2 MM 045	1/2	24¢	20¢	12¢
2 MM 065	1	36¢	30¢	18¢
2 MM 085	2	48¢	40¢	24¢

*In values from 27 ohms to 22 meg only.

OHMITE "LITTLE DEVIL" RESISTOR ASSORTMENTS



Plastic Storage Cabinet Included

Most-often-needed values (10 ohms to 1 meg). Ideal assortment for radio, hi-fi, and TV servicemen. Molded, insulated, composition resistors with tolerances of $\pm 10\%$. Choose either 1/4, 1/2, 1 or 2-watt assortments. Convenient storage cabinet of high-impact plastic 4 1/2 x 9 x 5 1/4". Has five drawers, each with eight labeled compartments. Shpg. wt., 3 lbs.

Stock No.	Type	Resistors	EACH
2 M 767	CAB-4	150 1/4-watt	19.50
2 M 761	CAB-10	150 1/2-watt	18.00
2 M 754	CAB-2	125 1-watt	22.50
2 M 762	CAB-3	125 2-watt	30.00

SEE TABLE "A" BELOW FOR VALUES 10% TOLERANCE RESISTORS

Stock No.	Wattage Rating	ASSORTED		
		1-4 EA.	5-49 EA.	50-U.P.
2 MM 050	1/10	24¢	20¢	16¢
2 MM 450	1/4	13¢	11¢	07¢
2 MM 040	1/2	14¢	11¢	06¢
2 MM 060	1	18¢	15¢	09¢
2 MM 080	2	24¢	20¢	15¢

\$In values from 10 ohms to 1.0 meg only.

*In values from 27 ohms to 22 meg only.

SPECIFY VALUES DESIRED 10% TOLERANCE RESISTORS

Table "A"

Ohms	Ohms	Ohms	Ohms	Mega
10	220	4700	100K	2.2
12	270	5600	120K	2.7
15	330	6800	150K	3.3
18	390	8200	180K	3.9
22	470	10K	220K	4.7
27	560	12K	270K	5.6
33	680	15K	330K	6.8
39	820	18K	390K	8.2
47	1000	22K	470K	10.0
56	1200	27K	560K	12.0
68	1500	33K	680K	15.0
82	1800	39K	820K	18.0
100	2200	47K	1M	22.0
120	2700	56K	1.2 meg	
150	3300	68K	1.5 meg	
200	3900	82K	1.8 meg	

SPECIFY VALUES DESIRED

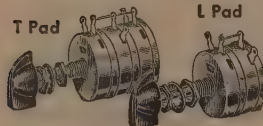
5% TOLERANCE RESISTORS

Table "B"

Ohms	Ohms	Ohms	Ohms	Mega
10	220	4700	100K	2.2
12	270	5600	120K	2.7
15	330	6200	130K	3.0
18	390	6800	150K	3.3
22	470	7500	160K	3.6
27	560	8200	180K	3.9
33	680	9100	200K	4.3
36	750	10K	220K	4.7
39	820	11K	240K	5.1
47	1000	12K	270K	5.6
56	1200	13K	300K	6.2
68	1500	15K	330K	6.8
75	1600	16K	360K	7.5
82	1800	18K	390K	8.2
91	2000	20K	430K	9.1
100	2200	22K	470K	10.0
110	2400	24K	510K	11.0
120	2700	27K	560K	12.0
130	3000	30K	620K	13.0
150	3300	33K	680K	15.0
160	3600	36K	750K	16.0
180	3900	39K	820K	18.0
200	4300	43K	100K	22.0
			1.0 meg	
			1.1 meg	
			1.2 meg	
			1.3 meg	
			1.5 meg	
			1.6 meg	
			1.8 meg	
			2.0 meg	

MALLORY CONTROLS

SPEAKER CONTROLS



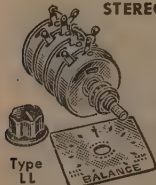
Constant-load attenuator pads. Widely used to control the level of low-impedance audio circuits in sound systems. Rated at 4 watts, continuous DC; 15 w. peak audio. Have 2" shafts. Bushing size: 3/8 x 3/4" diameter. Supplied with bar knob, 0-10 dial plate and wiring instructions. Av. shpg. wt., 7 oz.

T-Pad Attenuators. Present constant source impedance as well as constant load at all control settings. Size: 1 1/2" dia., 1 1/8" deep.

Ohms	Stock No.	Type	Stock No.	Type
4	29 M 869	T4	29 M 884	L4
8	29 M 871	T8	29 M 892	L8
15	29 M 872	T15	29 M 886	L15
50	29 M 873	T50	29 M 887	L50
500	29 M 876	T500	29 M 890	L500
600	29 M 866	T600	29 M 891	L2000
2000	29 M 877	T2000	29 M 708	L4000
4000				

"T" Pads. EACH.....3.54 "L" Pads. EACH.....2.73

STEREO AND MONOPHONIC L-PAD CONTROLS



Constant-impedance attenuators. Use as level controls in low-impedance, low-level audio circuits. LL-8 and LL-16 are dual-tandem for stereo balance or master volume; others for monophonic use, 15-watt rating, 29¢ rotation. Bushing: 1" by 3/4" dia. 1 1/2" shaft. Wt., 3 oz.

Stock No.	Mfr's Type	Ohms	EACH
29 M 097	LL-8	8	5.70
29 M 098	LL-16	16	5.70
29 M 071	L8-A	8	2.85
29 M 072	L16-A	16	2.85

ALLIED CARRIES COMPLETE LINES OF RESISTORS AND CONTROLS
IN STOCK FOR IMMEDIATE DELIVERY



WUERTH SURGISTORS

Limit maximum initial current-surge to 25% of normal, yet allow full voltage after warm-up. Connect directly into power line. For 110-120 v., AC-DC. Av. shpg. wt., 7 oz.

Stock No.	Mfr's Type	Wattage	EACH
28 M 552	4100-2	100-275	1.17
28 M 553	8050-4	250-400	1.77
28 M 560	8055-5	300-500	1.98

G-C GLO-BAR "THERMISTORS"

Popular thermistors used in series-string filament circuits of RCA, Crosley, Philco, and other TV sets. A necessary service replacement item. *Matched pair; replaces filament resistors of G.E., M'rola, Philco, etc. Av. wt., 2 oz.

Stock No.	Type	Ohms		Replaces	EACH
		Hot	Cold		
2 M 066	25-912	20	250	GE RRW051	1.88
2 M 067	25-914	75	950	GE RRW041	1.29
2 M 068	25-916	31	260	GE RRW097	1.12
2 M 053	25-920	11	600	M'rola 6A7 35941	1.47
2 M 054	25-922	50	150	Philco 33-1343-3	.94
2 M 055	25-924	10.5K at 125V		G.E. RRW052	1.88
2 M 070	25-926	43	600	Crosley	1.47
2 M 071	25-928	9	600	RCA 100118	.93
2 M 072	25-910	40	375	(see above)	1.76

CENTRALAB "COMPENTROLS"



Type C-1 Combination volume control and tone compensator. Improves apparent bass and treble response of TV sets, radios, hi-fi, etc., when volume is at low level. Replaces existing volume controls. Shaft length, 3". Body diameter, 1 1/4". Average shpg. wt., 5 oz.

Stock No.	Type	Ohms	EACH
30 M 421	C1-60	500K	2.40
30 M 423	C1-70	1 meg	2.40

Closely follow the curves of the Fletcher-Munson effect. Low loss—do not require added amplification.

Type C-2-100 "Senior." Similar to Type C-1, for left. DuPont type C-2, replaced 250K to 2 meg volume control in amplifiers, TV sets, etc. Permits any degree of compensation at low listening levels. Shaft length, 7/8". Maximum body diameter, 1 1/8". Supplied complete with two knobs. Wt., 6 oz. 3.3

Mallory Pots and Rheostats, Shafts and Switches

STA-LOC UA UNIVERSAL CONTROLS

UA universal single control provides snap ther, rugged construction for assembling any bination of shaft, control and switch desired— less than ten seconds without any tools. Order from list below. Choice of SPST, DPST, and ST switches. UA controls cover every popular rot from 100 ohms to 10 megohms, untapped, ed and double-tapped, with choice of tapers, vatt sprayed carbon elements fulfill radio, TV, industrial needs. Replaces older style U, UT, T, and SU control types. 3/4" bushing with . nut. Less shaft and switch (see below). 2 oz



UNTAPPED (Less Shaft)

Stock No.	Type	Ohms	Taper	Stock No.	Type	Ohms	Taper
M 000	UA12L	100	4	28 M 015	UA54R	50K	2
M 001	UA20L	500	4	28 M 016	UA73A	75K	1
M 002	UA52R	500	2	28 M 017	UA15A	100K	1
M 003	UA751R	750	2	28 M 018	UA15L	100K	4
M 004	UA13L	1000	4	28 M 019	UA15R	100K	2
M 005	UA13R	1000	2	28 M 020	UA25SL	125K	4
M 006	UA15L	1500	4	28 M 021	UA15A	200K	4
M 007	UA152R	1500	2	28 M 022	UA25L	200K	4
M 008	UA23L	2000	4	28 M 023	UA25A	250K	1
M 009	UA252R	2500	2	28 M 024	UA25AL	250K	4
M 010	UA33L	3000	4	28 M 025	UA25AR	250K	2
M 011	UA33R	3000	2	28 M 026	UA55A	500K	1
M 012	UA35A	5000	4	28 M 027	UA55L	500K	4
M 013	UA53L	5000	4	28 M 028	UA75AA	750K	1
M 014	UA14A	10K	1	28 M 029	UA16A	1 meg	1
M 030	UA14L	10K	4	28 M 042	UA16L	1 meg	4
M 031	UA14R	10K	2	28 M 043	UA16R	1 meg	2
M 032	UA15A	15K	1	28 M 044	UA26L	1.5 meg	4
M 033	UA153R	15K	2	28 M 045	UA26A	2 meg	1
M 034	UA24A	20K	1	28 M 046	UA26L	2 meg	4
M 035	UA24L	20K	4	28 M 047	UA255L	2.5 meg	4
M 036	UA253A	25K	1	28 M 048	UA36A	3 meg	1
M 037	UA253R	25K	4	28 M 049	UA36L	3 meg	4
M 038	UA253L	25K	2	28 M 050	UA56A	5 meg	1
M 039	UA34L	30K	4	28 M 051	UA56L	5 meg	4
M 040	UA54A	50K	1	28 M 052	UA56R	5 meg	2
M 041	UA54L	50K	4	28 M 053	UA17L	10 meg	4

shaft (listed below). EACH.

63¢

EXPLANATION OF TAPERS

aper No. 1: For use in audio or antenna switch circuits.
aper No. 2: For series circuits or cathode voltage controls.
aper No. 4: Linear. For voltage control.

TAPPED (Less Shaft)

Stock No.	Type	Ohms	Tap	Stock No.	Type	Ohms	Tap
M 054	UA153T14	15K	10K	28 M 064	UA16T35	1 meg	300K
M 055	UA24T253	30K	25K	28 M 065	UA16T54	1 meg	450K
M 056	UA25T454	250K	50K	28 M 066	UA26T1253	2 meg	125K
M 057	UA25T1754	250K	150K	28 M 067	UA26T254	2 meg	250K
M 058	UA35T474	350K	70K	28 M 068	UA28T45	2 meg	400K
M 059	UA55T154	500K	50K	28 M 069	UA26T35	2 meg	600K
M 060	UA55T15	500K	100K	28 M 070	UA26T55	2 meg	900K
M 061	UA55T154	500K	150K	28 M 071	UA36T95	3 meg	900K
M 062	UA55T2253	500K	225K	28 M 072	UA325AT34	3.25 meg	300K
M 063	UA16T25	1 meg	200K				

shaft (listed below). EACH.

85¢

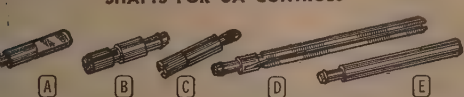
DOUBLE-TAPPED (Less Shaft)

Stock No.	Type	Ohms	Tap #1	Tap #2
M 073	UA55DT25	500K	100K	200K
M 074	UA16DT55	1 meg	250K	500K
M 075	UA155DT55	1.5 meg	225K	500K
M 076	UA2254DT55	2.25 meg	250K	500K
M 077	UA2254DT16	2.25 meg	500K	1 meg
M 078	UA335DT155	3.3 meg	300K	1.5 meg

shaft (listed below). EACH.

85¢

SHAFTS FOR UA CONTROLS



Shafts for virtually every application. Type SL3500 (Fig. E) universal ut and Type SL2500 (Fig. D) plain round, are easily cut to shorter gths. Type SN1000 (Fig. C) provides for insulated TV controls. pe SL2500 meets industrial needs for plain round shafts. Under ecription, "figure preceding FMS" indicates length from assembled nt mounting surface. Av. wt., 2 oz.

Stock No.	Type	Fig.	Description	Made of:	EACH
M 079	SL1000	A	3/4" dia. x 1" FMS (Flatted)	Brass	39¢
M 080	SK1000	B	3/4" dia. x 1" FMS (Knurled)	Brass	
M 081	SN1000	C	3/4" dia. x 1" FMS	Nylon	
M 082	SL2500	D	3/4" dia. x 2 1/2" FMS (Plain Round)	Aluminum	
M 083	SL3500	E	3/4" dia. x 3 3/4" FMS (Universal)	Aluminum	

SWITCHES FOR UA CONTROLS

ese switches may be mounted on any of the above controls. Three ees are available: US41 (SPST), US42 (DPST), and US43 (SPDT). itches attach to controls firmly and easily with locking collar included. n be readily removed in service and replaced without unsoldering ntrol leads on UA controls or vice-versa. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Action	EACH
28 M 084	US41	SPST	42¢
28 M 085	US42	DPST	51¢
28 M 086	US43	SPDT	51¢

"M" AND "MT" WIREWOUND CONTROLS

For industrial and laboratory use as bias controls and voltage dividers. Also for replacement of positioning, hold, focus and other TV set controls. 4 watts. Arm insulated from shaft. 294° rotation. Knurled 1/4" shaft is 3/8" long; has screwdriver slot. "M" shaft is hollow to accept DS-36 shafts (see below). MT types center-tapped TV use 1 1/2" dia. x 1/2". Mount in 3/4" hole. Linear taper. Shpg. wt., 2 oz.



POTENTIOMETERS

Stock No.	Type	Ohms	EA.	Stock No.	Type	Ohms	EA.
29 M 424	M1PK	3	1.35	29 M 411	M500PK	500	1.35
29 M 425	M3PK	6		29 M 412	M600PK	600	
29 M 426	M6PK	10		29 M 413	M1MPK	1000	
29 M 427	M10PK	10		29 M 431	M1.5MPK	1500	
29 M 428	MT10PK	10	1.32	29 M 414	M2MPK	2000	1.35
29 M 400	M15PK	15	1.35	29 M 432	M2.5MPK	2500	
29 M 401	M20PK	20	1.32	29 M 415	M3MPK	3000	
29 M 429	MT20PK	20	1.32	29 M 416	M4MPK	4000	
29 M 402	M25PK	25	1.35	29 M 417	M5MPK	5000	1.47
29 M 403	M30PK	30	1.35	29 M 418	M10MPK	10K	
29 M 430	MT30PK	30	1.32	29 M 419	M15MPK	15K	
29 M 404	M40PK	40	1.35	29 M 420	M20MPK	20K	
29 M 405	M50PK	50	1.35	29 M 421	M25MPK	25K	1.74
29 M 406	M60PK	60		29 M 422	M50MPK	50K	
29 M 407	M75PK	75		29 M 423	M70MPK	70K	
29 M 408	M100PK	100		29 M 433	M75MPK	75K	2.46
29 M 409	M200PK	200	400	29 M 434	M100MPK	100K	
29 M 410	M400PK	400					

RHEOSTATS

Have open or off position counter-clockwise.

Stock No.	Type	Ohms	Amps	Stock No.	Type	Ohms	Amps
29 M 451	M05RK	1/2	2.80	29 M 459	M20RK	20	.45
29 M 452	M1RK	1	2.00	29 M 460	M25RK	25	.40
29 M 453	M2RK	2	1.40	29 M 461	M30RK	30	.37
29 M 454	M3RK	3	1.15	29 M 462	M40RK	40	.32
29 M 455	M4RK	4	1.00	29 M 463	M50RK	50	.28
29 M 456	M6RK	6	.82	29 M 464	M60RK	60	.26
29 M 457	M10RK	10	.63	29 M 465	M75RK	75	.23
29 M 458	M15RK	15	.52	29 M 466	M100RK	100	.20

EACH.....93¢

29 M 651, Type 395 Dial Plate. For "M" Controls. 2 oz.....21¢

2-WATT TV CONTROLS

Two-watt wirewound potentiometers designed especially for replacement of television controls. Also excellent for use as voltage dividers and bias controls. Insulated contact arm type, linear taper. Special shielded contactor mechanism. 900 volts AC insulation between resistance element and chassis. 297° rotation. Taper 4. 1 3/4" in diameter. Knurled stub shaft has screwdriver slot. *Center-tapped. 3/4" bushing. Shpg. wt., 4 oz.

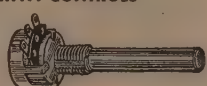


Stock No.	Type	Ohms	EACH	Stock No.	Type	Ohms	EACH
29 M 835	R20L	20	.93	29 M 842	R1000L	1000	93¢
29 M 836	R20CT*	20	.93	29 M 843	R1500L	1500	
29 M 837	R25L	25	.93	29 M 844	R2000L	2000	
29 M 838	R30L	30	.93	29 M 845	R3000L	3000	
29 M 839	R30CT*	30	1.32	29 M 846	R3000L	3000	1.08
29 M 840	R50L	50		29 M 847	R5000L	5000	
29 M 864	R100L	100	93¢	29 M 848	R7500L	7500	
29 M 861	R250L	250		29 M 849	R10ML	10K	
29 M 834	R500L	500		29 M 850	R20ML	20K	

29 M 925, DS-36 Special 3" Extension Shaft. For tubular shaft TV 2-watt controls, and Type "M" pots. Wt., 2 oz. 38¢
29 M 987, EB-214 Special Bushing. Dimensions 1/4"-28 thread, 3/4" long with .403" mill flat. Shpg. wt., 2 oz. 75¢

TYPE VW WIREWOUND 5-WATT CONTROLS

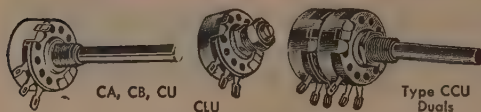
Miniature 5-watt potentiometers. Very small size for this wattage rating; ideal for limited space applications. Case size only 3/4" in diameter by 7/8" in depth. Bushing: 3/8" diameter and length. Has 1/4" plain round shaft, 2 1/2" long from mounting surface. Linear taper. Tolerance: ±5%. 305° mechanical rotation; 275° electrical rotation. High-quality construction throughout for dependable operation and stability. Av. shpg. wt., 4 oz.



Stock No.	Type	Ohms	EA.	Stock No.	Type	Ohms	EA.
28 M 087	VW-1	1	1.38	28 M 105	VW-300	300	1.38
28 M 088	VW-2	2		28 M 106	VW-400	400	
28 M 089	VW-3	3		28 M 107	VW-500	500	
28 M 090	VW-5	5		28 M 108	VW-600	600	
28 M 091	VW-6	6	1.38	28 M 109	VW-750	750	1.38
28 M 092	VW-8	8		28 M 110	VW-1K	1000	
28 M 093	VW-10	10		28 M 111	VW-1PK	1500	
28 M 094	VW-15	15		28 M 112	VW-2K	2000	
28 M 095	VW-20	20	1.38	28 M 113	VW-2PK	2500	1.44
28 M 096	VW-25	25		28 M 114	VW-3K	3000	
28 M 097	VW-30	30		28 M 115	VW-4K	4000	
28 M 098	VW-40	40		28 M 116	VW-5K	5000	1.50
28 M 099	VW-50	50	1.38	28 M 117	VW-7PK	7500	
28 M 100	VW-60	60		28 M 118	VW-10K	10K	
28 M 101	VW-75	75		28 M 119	VW-15K	15K	
28 M 102	VW-100	100	1.38	28 M 120	VW-20K	20K	1.56
28 M 103	VW-200	200		28 M 121	VW-25K	25K	
28 M 104	VW-250	250					

Ohmite and IRC Controls

OHMITE "AB" TWO-WATT POTENTIOMETERS



TYPES CA, CB, CU (Size: 1 1/2" dia. x 5/8")

Stock No.	Type	Ohms	EACH	Stock No.	Type	Ohms	EACH
28 M 500	CU5001	50	1.95	28 M 512	CB5031†	50K	2.25
28 M 501	CU1011	100		28 M 513	CU7531	75K	1.95
28 M 596	CU1041	150		28 M 514	CA1041*	100K	2.25
28 M 502	CU2511	250		28 M 515	CU1541	150K	1.95
28 M 597	CU3511	350	1.95	28 M 516	CU2541*	250K	1.95
28 M 503	CU5011	500		28 M 517	CU3541	350K	1.95
28 M 598	CU7511	750		28 M 518	CU5041*	500K	2.25
28 M 504	CU1021	1000		28 M 519	CU7542	750K†	1.95
28 M 599	CU1521	1500	1.95	28 M 520	CA1052*	1 meg†	1.95
28 M 505	CU2521	2500		28 M 521	CU1552	1.5 meg†	1.95
28 M 600	CU3521	3500		28 M 522	CU2052	2.0 meg†	1.95
28 M 506	CU5021	5000		28 M 523	CU2552*	2.5 meg†	2.25
28 M 507	CU7521	7500	1.95	28 M 524	CU3552	3.5 meg†	1.95
28 M 508	CB1031†	10K		28 M 525	CU5052	5.0 meg†	1.95
28 M 602	CU1531	15K					
28 M 509	CU2531†	25K					
28 M 510	CU3531†	35K	1.95				
28 M 603	CU5031	50K					
28 M 511	CU7531	75K					

TYPE CLU—WITH LOCKING SHAFT (Size: 1 1/2" dia. x 5/8")

Stock No.	Type	Ohms	EACH	Stock No.	Type	Ohms	EACH
28 M 525	CLU5001	50	2.55	28 M 534	CLU5031	50K	2.55
28 M 526	CLU1011	100		28 M 535	CLU1041	100K	
28 M 527	CLU2511	250		28 M 536	CU1541	150K	
28 M 528	CLU5011	500		28 M 537	CU2541	250K	
28 M 529	CLU1021	1000	2.55	28 M 538	CLU1052	1.0 meg†	2.55
28 M 530	CLU2521	2500		28 M 539	CLU2052	2.0 meg†	
28 M 531	CLU5021	5000		28 M 540	CLU3052	3.0 meg†	
28 M 532	CU1031	10K					
28 M 533	CU2531	25K					

TYPE CCU DUALS (Size: 1 1/2" dia. x 1 1/4")

Stock No.	Type	Ohms	EACH	Stock No.	Type	Ohms	EACH
28 M 541	CCU1031	10K	5.85	28 M 545	CCU2541	250K	5.85
28 M 542	CCU2531	25K		28 M 546	CCU5041	500K	
28 M 543	CCU5031	50K		28 M 547	CCU1052	1 meg†	
28 M 544	CCU1041	100K					

28 M 524, CS-1 SPST Switch. For AB pots, except CCU 3 oz. 66¢

IRC-CTS Q CONTROLS WITH UNIVERSAL SHAFTS



Knurled, flatted and slotted. 3" universal shaft can be cut to desired length. 1/4" body dia. 3/8" bushing, 1/4" long. Smooth, extremely quiet operation. *Includes 270 ohm, 1/2-watt bias resistor. Less switches (below). See taper explanations below. Av. shpg. wt., 4 oz.

Stock No.	Type	Ohms	Taper	Stock No.	Type	Ohms	Taper
30 M 395	Q11-201	250	A	30 M 388	Q11-228	125K	A
30 M 300	Q11-103	500	A	30 M 374	Q11-129	200K	A
30 M 377	Q11-105	750	A	30 M 319	Q11-130	250K	A
30 M 441	Q11-107	1000	F	30 M 320	Q11-130	250K	C
30 M 301	Q11-108	1000	A	30 M 445	Q11-131	300K	A
30 M 442	Q11-109	1500	A	30 M 321	Q11-132	350K	C
30 M 302	Q11-110	2000	A	30 M 322	Q11-133	500K	A
30 M 373	Q13-111	2500	C	30 M 323	Q13-133	500K	C
30 M 303	Q11-112	3000	A	30 M 324	Q14-133	500K	D
30 M 304	Q11-114	5000	A	30 M 397	Q17-133	500K	C
30 M 383	Q13-114	5000	C	30 M 398	Q11-134	600K	A
30 M 384	Q17-114	5000	C	30 M 399	Q11-136	750K	A
30 M 305	Q11-115	7500	A	30 M 325	Q11-137	1 meg	A
30 M 306	Q11-116	10K	A	30 M 326	Q13-137	1 meg	C
30 M 307	Q13-116	10K	C	30 M 327	Q14-137	1 meg	D
30 M 308	Q14-116*	10K	D	30 M 877	Q17-137	1 meg	Q
30 M 315	Q11-116	10K	A	30 M 328	Q11-138	1.5 meg	A
30 M 309	Q11-119	20K	A	30 M 329	Q11-139	2 meg	A
30 M 311	Q11-120	25K	A	30 M 330	Q13-139	2 meg	C
30 M 443	Q13-120	25K	C	30 M 331	Q11-239	2.5 meg	A
30 M 314	Q11-123	50K	A	30 M 332	Q11-140	3 meg	A
30 M 315	Q13-123	50K	C	30 M 333	Q13-140	3 meg	C
30 M 316	Q14-123*	50K	C	30 M 446	Q17-140	3 meg	Q
30 M 387	Q11-125	75K	A	30 M 334	Q11-141	5 meg	A
30 M 317	Q11-128	100K	A	30 M 393	Q17-141	5 meg	Q
30 M 318	Q13-128	100K	C	30 M 335	Q11-143	10 meg	A

EACH. 1.02

TYPE 76 ATTACHABLE SWITCHES FOR Q CONTROLS

Blue bakelite enclosure. Easily attached. Type 76-4 is make-one, break-one for TV spot-killing. U.L. Approved. Shpg. wt., 2 oz.

30 M 359.	Type 76-1.	SPST.	60¢
30 M 591.	Type 76-2.	DPST.	60¢
30 M 888.	Type 76-4.	SPDT.	75¢

EXPLANATION OF TAPERS

Taper A. Linear.

Taper C. Logarithmic curve for audio circuit control or antenna shunt control.

Taper D. Tapered at both ends to provide control of grid bias and antenna circuit.

Taper P and Q. Semi-logarithmic curve with reverse taper. For use in contrast and picture control circuits in television.

IRC-CTS WIREWOUND CONTROLS



Rugged 4-watt controls. All have linear taper except types with L, ad.

ohms have left-hand logarithmic taper for L focus; R right-hand for picture contrast. Rotation, 300°, 1 1/4" dia., 3/8" deep; threaded bushing 3/8" dia., 3/4" long. Nickel-plated brass shafts, 1/4" dia. Type WP has round shaft; long; WPK 3" long "Knob Master" at end. WS has 3/4" long shaft, knurled at end and slotted. Specify Type and Ohms, 4 oz.

TYPE WPK CONTROLS

Ohms	Ohms	Ohms	Ohms	Ohms
10	300	750R	2000L	5000L
20	400	1000	2250L	6000
30	500	1350	2500	6000L
50	600	1350	2500R	7500
100	600	1500	3000	7500L
200	750	1500L	4000L	10000
250	750L	2000	5000	

30 MM 216.....EACH 1.3

12.5K | 15K | 20K | 25K |

30 MM 199.....EACH 1.5

30K | 40K | 50K |

30 MM 856.....EACH 1.8

TYPE WPS CONTROLS

25	500	1500	2250L	4000
40	500L	2000	2500	4000L
60	1000	2250	3000	5000
250				

30 MM 217.....EACH 1.3

TYPE WP CONTROLS

2	15	60	400	2500
3	20	75	500	3000
5	25	100	750	4000
8	30	200	1000	5000
8	40	250	1500	7500
10	50	300	2000	10K

30 MM 215.....EACH 1.3

15K | 20K | 25K |

30 MM 857.....EACH 1.5

30K | 40K | 50K |

30 MM 858.....EACH 1.8

TYPE WPRL CONTROLS

Locking-type controls with screw-driver slot shaft, 1/4" dia. and approximately 1/2" long from mounting face. With 3/8" locking-type bushing at locking end. Linear taper. Specify Type and Ohms. Shpg. wt., 4 oz.

Ohms	Ohms	Ohms	Ohms	Ohms
2	15	60	400	2500
3	20	500	500	3000
5	25	100	750	4000
6	30	200	1000	5000
8	40	250	1500	7500
10	50	300	200	10K

30 MM 859.....EACH 1.5

15K | 20K | 25K |

30 MM 889.....EACH 1.8

30K | 40K | 50K |

30 MM 890.....EACH 2.0

SWITCHES FOR ABOVE CONTROLS

30 M 218. Type 76-11. SPST, 2 oz. 75¢

30 M 219. Type 76-12. DPST, 2 oz. 75¢

TYPE WM MULTISECTION CONTROLS

Ruggedly constructed 4-watt "add-on" control sections. Can be attached to the WPK, WP, WP or WPRL controls, listed above, to form dual control units. All have linear taper, except * 7500-ohm unit has left-hand and logarithmic taper for TV focus, 3/4" deep. Specify Type and Ohms. Shpg. wt., 2 oz.

Ohms	Ohms	Ohms	Ohms	Ohms
50	250	1500	3000	7500*
100	500	2000	5000	10K
200	1000	2500		

30MM 860.....EACH 1.3

Controls, Fuses and Accessories

OHMITE WIREWOUND RHEOSTATS

both, dependable controls with solid ceramic shafts. Each turn, core and base is bonded by celan vitreous enamel. Shunt pigtail carries heat to slip-ring. Ceramic hub insulates shaft from brush. Have copper-graphite contact shoes, except silver-graphite brushes. Rotated-steel contact arm construction, 300° rotation. Ratings are at full setting. Both types mount on panels up to 1/4" thick; control has shaft diameter of 1/4". Specifications: Type H—diameter, 1 1/2", depth required behind panel, 1 1/2", 1/2" diameter, 2 1/2", depth behind panel, 1/2". All are less knobs and dial plates (see listing on p. 10). Av. shpg. wt., 10 oz.



25 WATT—TYPE H

Stock No.	Mfr's Type	Res. Ohms	EACH	Stock No.	Mfr's Type	Res. Ohms	EACH
M 223	0140*	1	4.63	31 M 237	0152	125	4.11
M 224	0141	2		31 M 238	0153	175	
M 225	0142	3		31 M 239	0154	250	
M 226	0143	4		31 M 240	0155	350	
M 227	0144	8		31 M 241	0156	500	
M 228	0145	10		31 M 242	0157	750	
M 229	0146	15	4.63	31 M 244	0158	1000	4.63
M 230	0147	25		31 M 245	0159	1500	
M 231	0148	35		31 M 246	0160	2500	
M 232	0149	50		31 M 247	0161	3500	
M 233	0150	100		31 M 248	0162	5000	
M 236	0151	100	4.11				4.90

50 WATT—TYPE J

Stock No.	Mfr's Type	Res. Ohms	EACH	Stock No.	Mfr's Type	Res. Ohms	EACH
M 249	0308*	0.5	5.15	31 M 262	0321	150	4.63
M 250	0309*	1		31 M 263	0322	225	
M 251	0310*	2		31 M 264	0323	300	
M 252	0311	4		31 M 265	0324	500	
M 253	0312	6		31 M 266	0325	800	
M 254	0313	8	4.63	31 M 267	0326	1000	4.90
M 255	0314	12		31 M 268	0327	1600	
M 256	0315	16		31 M 269	0328	2500	
M 257	0316	22		31 M 270	0329	3500	
M 258	0317	35		31 M 271	0330	5000	
M 259	0318	50	5.15	M 272	0331	8000	5.15
M 260	0319	80		M 273	0332	10K	
M 261	0320	125					

KNOBS AND DIAL PLATE FOR RHEOSTATS

M 5150. Black bakelite knobs for above Types H and J Ohmite rheostats. Fluted design to match most standard equipment. Wt., 5 oz. M 944. 29¢
 M 5000 Dial Plate. Matching plate for Types H and J rheostats and above. Has 2 1/2" diameter. Handsomely finished with bright eyes and lines on etched black background. 0-100 scale divider. Wt., 2 oz. M 945. 29¢

JENSEN SPEAKER VOLUME CONTROLS

Two-section L-pads designed for controlling volume at individual speakers. Have no effect on volume of other speakers or total impedance. Feature rugged construction with special auto windings and solder lug terminals. Provide smooth, gradual volume control. Single line panel mounting. With lock nut, pointer knob and metal escutcheon plate. Av. shpg. wt., 1 lb.



Stock No.	Mfr's Type	Ohms	Watts	EACH
M 942	ST-760	3-4	15	2.85
M 940	ST-876	6-8	15	1.91
M 938	ST-237	15-16	35	3.38

IRC TV SIGNAL ATTENUATOR

Model QJ-3. Economically priced L-pad television signal attenuator. For use with sets having 300-ohm twin line antenna input. Minimizes inter-station interference, definition loss and sound break caused by excessive signal strength. Diminishes buzz or hum due to high signal level in intercarrier systems. Reduces overloading effects in strong signal area. In many cases, the signal attenuator can be used to correct or reduce horizontal or vertical jitters; also picture and sound "breakers." Very useful device to simulate fringe-area signals. Available with universal mounting bracket and instructions. 7/8" diameter, 1" long. Shaft: 1/4" diameter, 1/2" long. Shpg. wt., 3 oz. M 915. 2.64



"MINI-BREAKER" CIRCUIT MINDERS

Decision circuit protectors that provide circuit breaker action; prevent overloaded circuits; reset their pushbutton. Fit Edison base sockets. U.L. Approved. For 120 V.A.C. Shpg. wt., 3 oz.



Stock No.	Amps	EACH
M 176	15	89¢
M 177	20	
M 178	30	

BUSS FUSES AND ACCESSORIES

TYPE MDL FUSETRON FUSES

Long time-lag prevents needless blows from starting currents or surges. Operates instantly on high overloads or shorts. Thermal cutout operates slowly on low overloads. Size, 1 1/4 x 1/4". U.L. Listed. Shpg. wt., per pkg., 2 oz. 5 fuses per package.



Amps	Max. Volts	Stock No.	PKG. OF 5	Amps	Max. Volts	Stock No.	PKG. OF 5
1/100	250	53 B 441	1.23 1.02	4/10	250	53 B 453	
1/3	250	53 B 442	1.23 1.02	5	250	53 B 454	
1/16	250	53 B 443	.90 .75	7 1/2	250	53 B 455	90¢ 15¢
1/10	250	53 B 444	.90 .75	8/10	250	53 B 456	
15/100	250	53 B 450		1	250	53 B 461	90¢ 75¢
2/10	250	53 B 451		2-8/10	125	53 B 466	66¢ 55¢
1/4	250	53 B 452	90¢ 75¢	32	53 B 468	66¢ 55¢	
3/10	250	53 B 407		32	53 B 469	66¢ 55¢	

TYPE MDX 125-VOLT FUSETRON FUSES

Have same thermal delay action as Type MDL above, but open in approximately half the time, 1/2 second. 1 1/4 x 1/4". U.L. Listed. Shpg. wt. per pkg., 2 oz.; per 100, 15 oz. 5 fuses per package.

Amps	Stock No.	PER PKG. OF 5	Amps	Stock No.	PER PKG. OF 5
3-2/10	53 B 408		6 1/2	53 B 505	
4	53 B 503	66¢ 55¢	7	53 B 506	75¢ 62¢
5	53 B 504				

32-VOLT FUSES

For circuits operating at 32 volts or less. 1 1/4 x 1/4". U.L. Listed. Shpg. wt., 1 oz. per pkg. 5 fuses per package.

Amps	Stock No.	PER PKG. OF 5	Amps	Stock No.	PER PKG. OF 5
5	AGC 53 B 434		15	AGC 53 B 438	17¢ 14¢
6	AGC 53 B 435		20	AGC 53 B 439	20¢ 17¢
7 1/2	AGC 53 B 436	17¢ 14¢	30	AGC 53 B 440	20¢ 17¢
10	AGC 53 B 437				

SP-1 STAK-PAK FUSE ASSORTMENTS

- Neat, Convenient Way to Carry Fuses
- Compact Design; Sturdy Metal Construction

An assortment of 50 fuses in a compact, unbreakable metal case. Ideal for the serviceman's tool box—no more loose fuses scattered about. Consists of rack and 10 boxes (5 fuses per box) of the most-needed types. Includes 1 box each: AGC 1/4-amp; AGC 3/4-amp; AGC 1 1/2-amp; AGC 1-amp; AGC 3-amp; AGC 5-amp; MDL 1/4-amp; MDL 1/2-amp; MDL 2-amp; MTH 5-amp. 3 1/2 x 1 1/2 x 1 1/2". Shpg. wt., 1 lb. M 916. 5.16



FUSETRON TYPE FNM LONG TIME-LAG FUSES

Dual-element type. Fuse link operates only on high overloads or short-circuits; thermal cutout on low overloads. Thermal cutout cannot operate quickly on any load—provides long time-lag. 1 1/4 x 1/4". 250 v. max., except *125 v., 132 v. U.L. Listed. 5 oz. 10 fuses per pkg.



AMPERAGES AVAILABLE

1/10	4/10	1	1-6/10	2 1/2	4	6 1/2	10	25*
15/100	1/4	1 1/2	1-8/10	2-8/10	4 1/2	7	12*	30*
2/10	6/10	1 1/2	2	3-2/10	5	8	15*	
3/10	8/10	1-1/10	2 1/2	2-1/10	5-6/10	9	20*	

53 BB 449, Specify Amperage, 1-9 Pkg. PER PKG. 2.44
 10 or More Pkg. Specify Amperage from Table Above. PER PKG. 2.07

TYPE HKL AND HKR INDICATOR FUSEHOLDERS

For 1 1/4 x 1/4" fuses. HKL has neon indicator which lights when fuse is blown. HKR for use in 100 to 250-volt circuits. U.L. Listed. HKR is for 32-volt circuits; has incandescent indicator. 1 oz.



53 B 471, Type HKL. EACH 1.42
 53 B 502, Type HKR. EACH 2.21

BUSS AND G-C FUSE MOUNTINGS



For radio, TV, autos, etc. All are Buss, except *G-C. Fuse projects beyond holder; always easy to remove. *Screw terminals. Av. wt., 1 oz.

Stock No.	Type	For Fuses	EA.	Stock No.	Type	For Fuses	EA.
53 B 500	HPC	1 1/2 x 1 1/2"	50¢	53 B 480	4405	1 1/4 x 1/4"	14¢
53 B 477	HCM	1 1/2 x 1 1/2"	46¢	53 B 481	4408	Double 4405	28¢
53 B 475	HKP	1 1/2 x 1 1/2"	32¢	53 B 475	1749*	2 1/2 x 3/8"	14¢
53 B 478	HJM	1 x 1 1/2"	32¢	41 B 737	4513*	1 1/2 x 1 1/2"	36¢

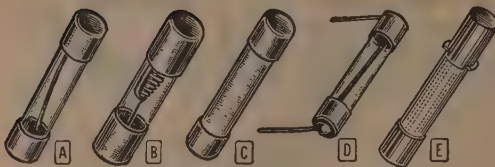
G-C "SPEEDX" FUSE PULLERS

Permits quick removal of cartridge-type fuses. Has non-slip construction. Laminated insulation of high dielectric material prevents shock from dangerous high voltages.



Stock No.	Mfr's Type	For Fuse Diameters	Shpg. Wt.	EACH
45 N 836	5525	1/4" to 1/2"	6 oz.	.59
45 N 837	5526	1/2" to 1 1/2"	7 oz.	1.27

Littelfuse Fuses and Fuse Holders



NEW TYPE 1AG FUSES

Series 301000. (Not illustrated—similar to Figure A, but only half as long.) For low-voltage applications such as auto radios, heaters, etc. Quick-to-medium action. $\frac{3}{16} \times \frac{1}{4}$, 2 oz. 6 fuses per pkg.

PER PKG. OF 5				PER PKG. OF 5				
Amps	Max. Volts	Stock No.		Amps	Max. Volts	Stock No.		
			1-19	20-Up			1-19	20-Up
1	32	53 B 681	26¢	22¢	10	32	53 B 687	
1	32	53 B 682	26¢	22¢	15	32	53 B 688	
2	32	53 B 683	23¢	20¢	20	32	53 B 689	
3	32	53 B 684	20¢	17¢	25	32	53 B 690	
5	32	53 B 685	20¢	17¢	30	32	53 B 691	
7½	32	53 B 686	20¢	17¢				

TYPE 3AG STANDARD FUSES

Series 312000. Dependable, quick-acting fuses for short time-lag uses. High operating temperatures do not affect fuse characteristics. Size: $1\frac{1}{4} \times \frac{1}{4}$ long $\times \frac{1}{4}$ dia. Pkg. wt., 2 oz. 5 fuses per package.

1/16	250	52 B 242	66¢	3/4	250	52 B 233	41¢	35¢
1/8	250	52 B 230		1	250	52 B 234	26¢	22¢
15/100	250	52 B 671		1 1/2	250	52 B 235	26¢	22¢
1/5	250	52 B 672		2	250	52 B 236	26¢	22¢
3/16	250	52 B 161	42¢	2 1/2	250	52 B 237	23¢	20¢
1/4	250	52 B 231		4	250	52 B 238	34¢	28¢
3/10	250	52 B 673		5	250	52 B 239	34¢	28¢
3/8	250	52 B 243		6	250	52 B 240	34¢	28¢
1/2	250	52 B 232		8	125	52 B 248	51¢	43¢

TYPE 3AG SLO-BLO FUSES

Series 313000. High time-lag to stand heavy surges. For circuits having high inductive or capacitive surges or heavy starting currents. Units through 5 amps are U.L. Listed. Size: $1\frac{1}{4} \times \frac{1}{4}$ long and $\frac{1}{4}$ diameter. Shpg. wt., per pkg. 2 oz. 5 fuses per package.

1/100	125	52 B 185	1.23	1.03	1	125	52 B 220	90¢	75¢
1/20	125	52 B 186	1.23	1.03	1 1/4	125	52 B 253	84¢	70¢
1/15	125	52 B 187	.90	.75	1 1/4	125	52 B 198	84¢	70¢
1/10	125	52 B 252	.90	.75	1.6	125	52 B 254	84¢	70¢
1/8	125	52 B 188	.90	.75	2	125	52 B 179	84¢	70¢
15/100	125	52 B 189			2 1/2	125	52 B 257		
1/5	125	52 B 679			3	125	52 B 181		
3/15	125	52 B 190	90¢	75¢	4	125	52 B 182	66¢	55¢
1/4	125	52 B 921			5	125	52 B 227		
3/10	125	52 B 192			6	125	52 B 223		
3/8	125	52 B 193	90¢	75¢	6 1/4	32	52 B 183		
1/2	125	52 B 923			10	32	52 B 226	66¢	55¢
6/10	125	52 B 195			15	32	52 B 224		
3/4	125	52 B 196	90¢	75¢	20	32	52 B 225	66¢	55¢
8/10	125	52 B 197			30	32	52 B 677		

TYPE 3AB FUSES

Series 314000. Steatite, powder-filled; for high-current use. Medium time-lag. $1\frac{1}{4} \times \frac{1}{4}$. Types thru 15 amps, U.L. Listed. 2 oz. 5 per pkg.

1	250	52 B 676		10	250	52 B 244	54¢	45¢
2	250	52 B 679		12	250	52 B 245	57¢	48¢
3	250	52 B 680		15	250	52 B 246	57¢	48¢
5	250	52 B 681		20	250	52 B 247	57¢	48¢
8	250	52 B 241		30	125	52 B 682	66¢	55¢

TYPE 3AG PITGAIL FUSES

Series 318000. Fast-acting type. All have $1\frac{1}{2}$ tinned copper leads. Size, $1\frac{1}{4} \times \frac{1}{4}$. Shpg. wt., per pkg., 2 oz. 5 fuses per package.

1/4	250	52 B 215	66¢	55¢	3/4	250	53 B 640	66¢	55¢
1/2	250	52 B 279	66¢	55¢	1	250	52 B 928	66¢	55¢

TYPE SFE 32-VOLT AUTO FUSES

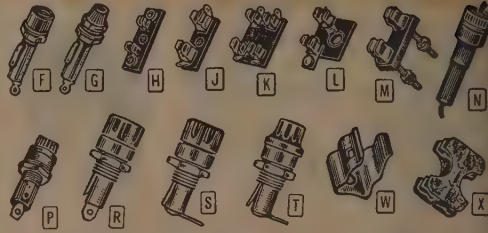
Series 307000. Medium-action fuses. Sizes specified by S.A.E. Specially grooved element strengthens fuses against vibrations. U.L. Listed. Max. volts, 32. $\frac{1}{4}$ dia. 2 oz. per pkg. 5 fuses per pkg.

Amps	Stock No.	Length	PKG. OF 5		Amps	Stock No.	Length	PKG. OF 5	
			1-19	20-Up				1-19	20-Up
4	52 B 250	$\frac{5}{8}$ "	19¢	16¢	14	52 B 265	$1\frac{1}{16}$ "	15¢	13¢
6	52 B 255	$\frac{3}{4}$ "	19¢	16¢	20	52 B 270	$\frac{1}{4}$ "	15¢	13¢
7½	52 B 274	$\frac{7}{8}$ "	19¢	16¢	30	52 B 275	$1\frac{1}{16}$ "	20¢	17¢
9	52 B 260	$\frac{7}{8}$ "	19¢	14¢					

TYPE 8AG FUSES

Series 361000. Fast-Action Instrument Fuses. Rated 250 max. volts, except * which is 32. $1\frac{1}{2} \times \frac{1}{4}$, 2 oz. per pkg. 5 fuses per pkg.

			PER PKG. OF 5					PER PKG. OF 5	
Amps	Blow Point ma	Stock No.	1-19	20-Up	Amps	Blow Point ma	Stock No.	1-19	20-Up
1/500	3	52 B 199	4.38	3.65	1/2	520	52 B 208	42¢	35¢
1/200	8	52 B 200	1.83	1.53	3/4	800	52 B 209	42¢	35¢
1/100	16	52 B 201	1.65	1.38	1	1300	52 B 210	30¢	25¢
1/32	40	52 B 202	1.44	1.20	1 1/2	1950	52 B 212	30¢	25¢
1/16	85	52 B 203	.90	.75	2	2600	52 B 211	30¢	25¢
1/8	155	52 B 205	.66	.55	3	3600	52 B 213	30¢	25¢
1/4	270	52 B 206	.42	.35	5 *	6000	52 B 214	30¢	25¢
3/8	380	52 B 207	.42	.35					



FUSE MOUNTINGS, RETAINERS, POSTS

Fuse holders for every application. *With fuse. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	For Fuses	Description	EACH
41 B 720	341001	F	3AG, 3AB	Screw slot	43¢
41 B 721	371001	F	8AG	Screw slot	43¢
41 B 722	342001	G	4AG	Thumb knob	96¢
41 B 727	342001	G	3AG, 3AB	Thumb knob	43¢
41 B 728	372001	G	8AG	Thumb knob	43¢
52 B 292	357001	H	3AG, 3AB	Lug terminals	14¢
52 B 285	387001	H	8AG	Lug terminals	14¢
52 B 294	356001	H	3AG, 3AB	Screw terminals	41¢
40 B 450	350218	J	3AG, 3AB	Single fuse mounting	14¢
52 B 296	387002	K	2-8AG	Double fuse mounting	28¢
52 B 297	357002	K	2-3AG or 3AB	Double fuse mounting	28¢
52 B 295	383002	L	8AG	"Meter-back" mounting	26¢
52 B 291	353001	M	3AG, 3AB	Panel type mounting	41¢
41 B 788	155003	N	*SFE, (9 a.)	Inline fuse retainer	33¢
41 B 798	155014	N	*SFE, (14 a.)	Inline fuse retainer	33¢
41 B 789	155020	N	*SFE, (20 a.)	Inline fuse retainer	33¢
41 B 795	342012	P	3AG	Extractor post	33¢
52 B 263	342012	R	3AG	Miniature fuse post	32¢
52 B 263	342014	S	3AG	Miniature fuse post	38¢
52 B 264	342022	T	3AG	Miniature fuse post	38¢

52 B 685, Fig. W. Type 10101 Fuse Clips. Fit SFE, 3AG, 8AG and 3AB fuses. Shpg. wt. per package, 3 oz. 10 clips per package. PER PACKAGE. 18¢

41 B 733, Fig. X. Type 350130 Fuse Holders. Fit 3AG fuses. Shpg. wt., 2 oz. EACH 18¢

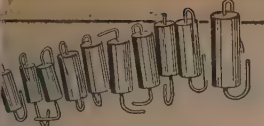


FUSEMASTER RACK ASSORTMENT

Includes 20 Boxes—100 Most Popular Fuses

Type 094047, 100 assorted fuses in a clear plastic rack. Ideal for service shops; inventory control. Rackboard permits taking fuse inventory at a glance. Includes 3AG types; 10— $\frac{1}{4}$ -amp, 10— $\frac{1}{2}$ -amp, 5—1-amp, 5—2-amp, 5—3-amp, 5—4-amp, 5—5-amp, 5—6-amp, 5—8-amp, 5—10-amp, 5—15-amp, 5—20-amp, 5—25-amp, 5—30-amp, 5—35-amp, 5—40-amp, 5—45-amp, 5—50-amp, 5—60-amp, 5—70-amp, 5—80-amp, 5—90-amp, 5—100-amp, 5—125-amp, 5—150-amp, 5—175-amp, 5—200-amp, 5—250-amp, 5—300-amp, 5—350-amp, 5—400-amp, 5—450-amp, 5—500-amp, 5—600-amp, 5—700-amp, 5—800-amp, 5—900-amp, 5—1000-amp, 5—1250-amp, 5—1500-amp, 5—1750-amp, 5—2000-amp, 5—2500-amp, 5—3000-amp, 5—3500-amp, 5—4000-amp, 5—4500-amp, 5—5000-amp, 5—6000-amp, 5—7000-amp, 5—8000-amp, 5—9000-amp, 5—10000-amp, 5—12500-amp, 5—15000-amp, 5—17500-amp, 5—20000-amp, 5—25000-amp, 5—30000-amp, 5—35000-amp, 5—40000-amp, 5—45000-amp, 5—50000-amp, 5—60000-amp, 5—70000-amp, 5—80000-amp, 5—90000-amp, 5—100000-amp, 5—125000-amp, 5—150000-amp, 5—175000-amp, 5—200000-amp, 5—250000-amp, 5—300000-amp, 5—350000-amp, 5—400000-amp, 5—450000-amp, 5—500000-amp, 5—600000-amp, 5—700000-amp, 5—800000-amp, 5—900000-amp, 5—1000000-amp, 5—1250000-amp, 5—1500000-amp, 5—1750000-amp, 5—2000000-amp, 5—2500000-amp, 5—3000000-amp, 5—3500000-amp, 5—4000000-amp, 5—4500000-amp, 5—5000000-amp, 5—6000000-amp, 5—7000000-amp, 5—8000000-amp, 5—9000000-amp, 5—10000000-amp, 5—12500000-amp, 5—15000000-amp, 5—17500000-amp, 5—20000000-amp, 5—25000000-amp, 5—30000000-amp, 5—35000000-amp, 5—40000000-amp, 5—45000000-amp, 5—50000000-amp, 5—60000000-amp, 5—70000000-amp, 5—80000000-amp, 5—90000000-amp, 5—100000000-amp, 5—125000000-amp, 5—150000000-amp, 5—175000000-amp, 5—200000000-amp, 5—250000000-amp, 5—300000000-amp, 5—350000000-amp, 5—400000000-amp, 5—450000000-amp, 5—500000000-amp, 5—600000000-amp, 5—700000000-amp, 5—800000000-amp, 5—900000000-amp, 5—1000000000-amp, 5—1250000000-amp, 5—1500000000-amp, 5—1750000000-amp, 5—2000000000-amp, 5—2500000000-amp, 5—3000000000-amp, 5—3500000000-amp, 5—4000000000-amp, 5—4500000000-amp, 5—5000000000-amp, 5—6000000000-amp, 5—7000000000-amp, 5—8000000000-amp, 5—9000000000-amp, 5—10000000000-amp, 5—12500000000-amp, 5—15000000000-amp, 5—17500000000-amp, 5—20000000000-amp, 5—25000000000-amp, 5—30000000000-amp, 5—35000000000-amp, 5—40000000000-amp, 5—45000000000-amp, 5—50000000000-amp, 5—60000000000-amp, 5—70000000000-amp, 5—80000000000-amp, 5—90000000000-amp, 5—100000000000-amp, 5—125000000000-amp, 5—150000000000-amp, 5—175000000000-amp, 5—200000000000-amp, 5—250000000000-amp, 5—300000000000-amp, 5—350000000000-amp, 5—400000000000-amp, 5—450000000000-amp, 5—500000000000-amp, 5—600000000000-amp, 5—700000000000-amp, 5—800000000000-amp, 5—900000000000-amp, 5—1000000000000-amp, 5—1250000000000-amp, 5—1500000000000-amp, 5—1750000000000-amp, 5—2000000000000-amp, 5—2500000000000-amp, 5—3000000000000-amp, 5—3500000000000-amp, 5—4000000000000-amp, 5—4500000000000-amp, 5—5000000000000-amp, 5—6000000000000-amp, 5—7000000000000-amp, 5—8000000000000-amp, 5—9000000000000-amp, 5—10000000000000-amp, 5—12500000000000-amp, 5—15000000000000-amp, 5—17500000000000-amp, 5—20000000000000-amp, 5—25000000000000-amp, 5—30000000000000-amp, 5—35000000000000-amp, 5—40000000000000-amp, 5—45000000000000-amp, 5—50000000000000-amp, 5—60000000000000-amp, 5—70000000000000-amp, 5—80000000000000-amp, 5—90000000000000-amp, 5—100000000000000-amp, 5—125000000000000-amp, 5—150000000000000-amp, 5—175000000000000-amp, 5—200000000000000-amp, 5—250000000000000-amp, 5—300000000000000-amp, 5—350000000000000-amp, 5—400000000000000-amp, 5—450000000000000-amp, 5—500000000000000-amp, 5—600000000000000-amp, 5—700000000000000-amp, 5—800000000000000-amp, 5—900000000000000-amp, 5—1000000000000000-amp, 5—1250000000000000-amp, 5—1500000000000000-amp, 5—1750000000000000-amp, 5—2000000000000000-amp, 5—2500000000000000-amp, 5—3000000000000000-amp, 5—3500000000000000-amp, 5—4000000000000000-amp, 5—4500000000000000-amp, 5—5000000000000000-amp, 5—6000000000000000-amp, 5—7000000000000000-amp, 5—8000000000000000-amp, 5—9000000000000000-amp, 5—10000000000000000-amp, 5—12500000000000000-amp, 5—15000000000000000-amp, 5—17500000000000000-amp, 5—20000000000000000-amp, 5—25000000000000000-amp, 5—30000000000000000-amp, 5—35000000000000000-amp, 5—40000000000000000-amp, 5—45000000000000000-amp, 5—50000000000000000-amp, 5—60000000000000000-amp, 5—70000000000000000-amp, 5—80000000000000000-amp, 5—90000000000000000-amp, 5—100000000000000000-amp, 5—125000000000000000-amp, 5—150000000000000000-amp, 5—175000000000000000-amp, 5—200000000000000000-amp, 5—250000000000000000-amp, 5—300000000000000000-amp, 5—350000000000000000-amp, 5—400000000000000000-amp, 5—450000000000000000-amp, 5—500000000000000000-amp, 5—60000000000000000

Selected Capacitor Bargains



PKG. OF 10 AXIAL LEAD MINIATURE ELECTROLYTICS

98¢

The advantage of this amazing value—normally expect to pay much more—the price this package of axial-lead, electrolytics is being offered at! American-made, they include: 10 mfd @ 2 DC; 15 mfd @ 10 WVDC; 5 mfd @ 12 DC; 5 mfd @ 25 WVDC; 1 mfd @ 50 DC; plus 5 other values, 12 oz.

130D. Pkg. of 10 PER PKG. 98¢



40-Piece DISC CERAMIC CAPACITOR KIT

98¢

Opportunity to stock up on important disc ceramic capacitors—and at a price you can't beat anywhere! This 40-piece ceramic disc assortment includes popular values from 2.7 mfd to 1000 mfd @ 500 to 2000 working volts DC. All are quality products of famous-name American manufacturers. Shpg. wt., 8 oz.

39 A 915D. Pkg. of 40..... PER PKG. 98¢

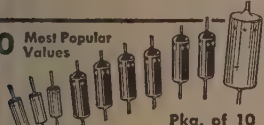


89¢

PACKAGE OF 10 UPRIGHT MINIATURE ELECTROLYTICS

Upright parallel-lead miniature electrolytic capacitors at less than a quarter of the price you'd normally expect to pay. American-made; for printed circuit use. Each assortment contains: 50 mfd @ 3 WVDC; 40 mfd @ 4.5 WVDC; 15 mfd @ 15 WVDC; 8 mfd @ 25 WVDC; 1 mfd @ 50 WVDC; plus 5 others. Av. wt., 12 oz.

11 L 126D. Pkg. of 10..... PER PKG. 89¢



0 Most Popular Values

Pkg. of 10

PLASTIC TUBULAR CAPACITORS

69¢

Outstanding bargain—ten of the most popular tubular capacitor values in 200 and WVDC ratings at real savings. Product of a famous-name American manufacturer, they are molded in extra hard, non-flammable bakelite; resistant to moisture, temperature and shock. With extra long copper-weld leads. 1 lb.

167D. Pkg. of 10..... PER PKG. 69¢

POPULAR-VALUE TUBULAR CAPACITORS

Here's a terrific buy—a package of 20 plastic-molded and ceramic-cased tubular capacitors offered at a price so low, you'll want several packages. Each package includes a wide assortment of popular capacity values in a working voltage range of from 100 to 600 WVDC. All capacitors are clearly marked as to capacity and working voltage values. Ideal for buffer, by-pass and blocking applications. Shpg. wt., 10 oz.

39 A 585D. Pkg. of 20..... PER PKG. 98¢

20 TUBULAR CAPACITORS

98¢



50 QUALITY MICA CAPACITORS

98¢

Here's an unbeatable bargain—a package of 50 top-quality mica capacitors in the most popular and needed values—and at a price so low, you'll want many packages! Seize this opportunity to build up a handy, time-saving inventory of these important items. American-made, capacitors are clear-color-coded and marked for easy identification. Shpg. wt., per pkg., 10 oz.

906D. Pkg. of 50..... PER PKG. 98¢

HARD-CASE MYLAR CAPACITORS

Small radial-lead tubulars. Have rock-hard case and mylar dielectric. Ideal for printed circuit use. Made by a famous-name American manufacturer—are rugged and highly resistant to both heat and moisture. 3 Per Pkg. Av. shpg. wt., per pkg., 8 oz.

400 WVDC TYPES

Stock No.	Mfd	Size	PER PKG.
39 A 970D	.01	1 1/2 x 1 1/8"	29¢
39 A 971D	.015	1 1/2 x 1 1/8"	30¢
39 A 972D	.025	1 1/2 x 1 1/8"	39¢
39 A 973D	.047	1 1/2 x 1 1/8"	40¢
39 A 974D	.05	1 1/2 x 1 1/8"	42¢
39 A 975D	.1	1 1/2 x 1 1/8"	49¢
39 A 976D	.15	1 1/2 x 1 1/8"	59¢
39 A 977D	.25	1 1/2 x 1 1/8"	59¢

600 WVDC TYPES

Stock No.	Mfd	Size	PER PKG.
39 A 978D	.001	3/4 x 5/8"	29¢
39 A 979D	.003	3/4 x 5/8"	30¢
39 A 980D	.005	3/4 x 5/8"	32¢
39 A 981D	.01	3/4 x 1 1/8"	39¢
39 A 982D	.015	1 1/2 x 1 1/8"	40¢
39 A 983D	.033	3/4 x 1 1/8"	45¢
39 A 984D	.05	1 1/2 x 1 1/8"	49¢
39 A 985D	.1	1 1/2 x 1 1/8"	59¢

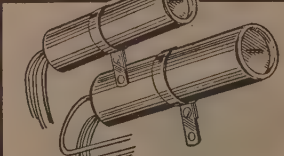


20 MOLDED PLASTIC CAPACITORS

98¢

Here's a terrific buy—a package of 20 molded plastic capacitors in the most popular values, at a price so low, each capacitor costs less than a nickel! Includes: .0022 @ 200 v.; 1 mfd @ 200 v.; .022 mfd @ 400 v.; .0047 mfd @ 600 v.; .033 mfd @ 90 v.; plus 15 other values in the 100 to 250 WVDC range. Shpg. wt., 8 oz.

770D. Pkg. of 20..... PER PKG. 98¢



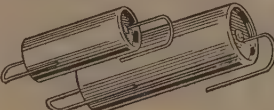
MULTIPLE-SECTION ELECTROLYTICS

Doubly insulated and wax-filled for moisture resistance. With #22 stranded vinyl-insulated tinned copper leads—6" minimum length—double tinned stripped ends. Mtg. strap attached. Max. temp., 167°F. 4 oz.

Stock No.	Mfd	WVDC	Size	EACH
39 A 993D	50-30	150	2 3/4 x 1"	45¢
39 A 994D	50-30-20	150	2 3/4 x 1 1/8"	69¢

SINGLE-SECTION ELECTROLYTICS

First-quality, single-section tubular electrolytic capacitors offered to experimenters, hobbyists, amateurs, and servicemen at tremendous savings. Stock up right now and have a convenient inventory always on hand. American-made, all have hermetically sealed aluminum cans with insulating cardboard sleeves and extra-heavy #18 tinned copper leads—3" minimum length. All have maximum operating temperature of 185°F. Units are conservatively designed and rated for trouble-free, long-life service. Av. shpg. wt., 4 oz.



Stock No.	Mfd	WVDC	Size	EACH
39 A 988D	150	150	3 1/2 x 1 1/4"	75¢
39 A 989D	200	200	3 1/2 x 1 1/4"	98¢
39 A 990D	20	450	2 1/2 x 1 1/8"	49¢
39 A 991D	40	450	2 1/2 x 1"	59¢
39 A 992D	80	450	4 x 1"	89¢



"CERA-MITE" DISC CERAMIC CAPACITORS

Ultra-compact ceramic disc capacitors. In EIA (RETMA) and other popular values. High-by-pass efficiency in critical circuits. Moistureproof coating. Tolerances: 1000 WVDC types, $\pm 20\%$; 3000 WVDC types: 1.5 mmf, ± 25 mmf; 4.7 mmf, ± 5 mmf; thru 68 mmf, $\pm 10\%$; thru 270 mmf, $\pm 20\%$. All capacitors are "tagged" for easy identification. Sizes range from $\frac{1}{4}$ " to $\frac{1}{2}$ ". Average shpg. wt., 2 oz.

SERIES 5GA—1000 WVDC

*Designates Mfd.

Stock No.	Type	Mmf	Stock No.	Type	Mmf
16 L 300	V50	5	16 L 330	T25	250
16 L 310	V75	7.5	16 L 330	T30	300
16 L 303	V80	8	16 L 333	T33	330
16 L 304	Q10	10	16 L 333	T35	350
16 L 305	Q12	12	16 L 335	T36	360
16 L 306	Q15	15	16 L 335	T39	390
16 L 307	Q18	18	16 L 335	T40	400
16 L 308	Q20	20	16 L 337	T47	470
16 L 309	Q22	22	16 L 339	T50	500
16 L 310	Q25	25	16 L 340	T56	560
16 L 311	Q27	27	16 L 341	T60	600
16 L 312	Q30	30	16 L 342	T68	680
16 L 313	Q33	33	16 L 343	T75	750
16 L 314	Q39	39	16 L 344	T80	800
16 L 315	Q47	47	16 L 345	T82	820
16 L 316	Q50	50	16 L 347	D10	.001*
16 L 317	Q56	56	16 L 347	D12	.0012*
16 L 318	Q68	68	16 L 347	D15	.0015*
16 L 319	Q75	75	16 L 347	D15	.0015*
16 L 320	Q82	82	16 L 350	D16	.0016*
16 L 321	Q91	91	16 L 351	D18	.0018*
16 L 322	T10	100	16 L 352	D20	.0020*
16 L 323	T12	120	16 L 352	D22	.0022*
16 L 324	T13	130	16 L 352	D25	.0025*
16 L 325	T15	150	16 L 355	D27	.0027*
16 L 326	T18	180	16 L 356	D30	.0030*
16 L 327	T20	200	16 L 357	D33	.0033*
16 L 328	T22	220	16 L 358	D39	.0039*
16 L 329	T24	240	16 L 359	D40	.0040*

TWO FOR.....30¢

Stock No.	Type	Mfd	2 FOR
16 L 360	D43	.0043	30¢
16 L 361	D47	.0047	
16 L 362	D50	.005	
16 L 363	S10	.01	

SERIES 30GA—3000 WVDC

Stock No.	Type	Mmf	Stock No.	Type	Mmf
16 L 361	V15	1.5	16 L 376	O68	68
16 L 370	V47	47	16 L 377	T10	100
16 L 371	O10	10	16 L 378	T12	120
16 L 372	O15	15	16 L 379	T15	150
16 L 373	Q25	25	16 L 380	T18	180
16 L 374	Q30	30	16 L 381	T20	200
16 L 375	Q39	39	16 L 382	T22	220
16 L 376	Q50	50	16 L 383	T25	250
16 L 379	Q60	60	16 L 384	T27	270

TWO FOR.....30¢

SINGLE AND DUAL HIGH-K TYPES

SERIES 5HK—500 and 1000 WVDC

Stock No.	Type	Mfd	WVDC	EA.
15 L 672	D20	.002	1000	
15 L 673	D50	.005	1000	
15 L 674	S10	.010	500	15¢
15 L 675	S20	.02	500	
19 L 951	S30	.03	500	27¢
19 L 952	S40	.04	500	27¢
19 L 953	S50	.05	500	27¢
19 L 954	P10	.1	500	78¢
15 L 675	D210	2x.001	1000	
15 L 676	D215	2x.0015	1000	
15 L 677	D220	2x.002	1000	15¢
15 L 678	D240	2x.004	1000	

* DOORKNOB CAPACITORS



High-voltage, 500-mmf plastic capacitors for replacement use in all types of TV sets. Moisture-resistant, thermostetting molded plastic. Molded guard rings increase surface leakage path. Capacitor body has 2 lead ends for variety of screw-in terminals. 200K-T5's supplied with 14 terminals (2 of each type shown). Type 300K-T5 with only 2 terminals indicated by *. Shpg. wt., 4 oz.



Stock No.	Type	KV Rating	Dia. x Length	PRICE
15 L 597	200K-T5	20	1x $\frac{1}{2}$ "x $\frac{1}{4}$ "	2.22/pr.
15 L 599	500K-T5	30	1x $\frac{1}{2}$ "x $\frac{1}{4}$ "	1.76/ea.

"TC" CALCULATOR

Handy slide-rule. Determines values of NPO and N750 ceramics to be connected in parallel to equal desired intermediate temperature coefficient and capacity. Shpg. wt., 4 oz. 37 K 103.

SERIES 10TCC NPO CERAMICS

Zero temperature-coefficient capacitors. 1000 WVDC. All capacitors listed below are of the disc type. Av. shpg. wt., 2 oz.

Stock No.	Type	Mmf	Stock No.	Type	Mmf
19 L 955	V10	1.0	19 L 961	O10	100
19 L 956	V15	1.5	19 L 962	O15	150
19 L 957	V22	2.2	19 L 963	O20	200
19 L 958	V33	3.3	19 L 964	O22	220
19 L 959	V47	4.7	19 L 965	O25	250
19 L 960	V68	6.8	19 L 966	O33	330

TWO FOR.....30¢

Stock No.	Type	Mmf	2 FOR
19 L 967	Q39	39	30¢
19 L 968	Q47	47	
19 L 969	Q50	50	
19 L 970	Q68	68	
19 L 971	Q75	75	
19 L 972	T10	100	30¢
19 L 973	T12	120	
19 L 974	T15	150	
19 L 975	T175	175	30¢
19 L 976	T22	220	36¢
19 L 977	T27	270	48¢

SERIES 10TCU N750 CERAMICS

A negative temperature coefficient capacitor with a negative change of 750 parts per million per degree Centigrade. 1000 WVDC. All capacitors listed below are of disc type except *rectangular. Av. shpg. wt., 2 oz.

Stock No.	Type	Mmf	Stock No.	Type	Mmf
19 L 978	V50*	5	19 L 986	O68	68
19 L 979	O10	100	19 L 987	O75	75
19 L 980	O15	150	19 L 988	T10	100
19 L 981	Q20	200	19 L 989	T15	150
19 L 982	Q22	220	19 L 990	T20	200
19 L 983	Q33	330	19 L 991	T22	220
19 L 984	Q35	350	19 L 992	T33	330
19 L 985	Q47	47			

TWO FOR.....30¢

Stock No.	Type	Mfd	2 FOR
19 L 993	T47	470	48¢
19 L 994	T68	680	54¢

SERIES BL BUFFER CERAMICS

2000 WVDC disc ceramic type capacitors for buffer applications. Thin, rugged construction. Moisture-proof coating assures high dependability. Perfect for use in highly compact equipment. Tolerance, $\pm 20\%$. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	Stock No.	Mfr's Type	Mfd
16 L 290	BL-D10	.001	16 L 295	BL-D60	.006
16 L 291	BL-D20	.002	16 L 296	BL-D70	.007
16 L 292	BL-D30	.003	16 L 297	BL-D75	.0075
16 L 293	BL-D40	.004	16 L 298	BL-D80	.008
16 L 294	BL-D50	.005			

TWO FOR.....42¢

CK-9 KIT WITH FREE JOB TRAY

60 Ceramic Discs
FREE Job Tray
60 of Sprague's most popular "Cera-Mite" 5 of each in table below. Plus an unbreakable, elastomeric job tray (1 $\frac{1}{2}$ "x6"x9") that prevents accidental mix-up of parts. Thin discs even fit across subminiature tube sockets. Low self-inductance for high bypass efficiency. Moistureproof insulating coating prevents shorts, assures reliability under severe humidity, vibration. For 85°C. GA in Type No. signifies general application; HK—high-K; TS—extra high-K for transistor circuitry; TS—temperature stable. Mmf at WVDC: *1000; †500; ‡200. 2 lbs. 19 L 278.



Mfr's Type	Mmf	Mfr's Type	Mmf
TC-S10	.01†	5GA-D10	.001*
TC-S50	.05†	5HK-D10	.001*
TC-P10	.1‡	5GA-D50	.005*
5HK-P10	.1‡	5GA-S10	.01*
5GA-P10	.0001*	5TC-S10	.01*
5GA-T47	.00047*	10TS-S10	.01*

TEMPERATURE-STABLE CERAMICS



These dependable ceramics are excellent for use wherever minimum capacitance change, with variation in temperature, is an important consideration. Compact size permits easy installation, even in tight spaces. Standard capacitance tolerance, $\pm 10\%$. Rated at 1000 working volts, DC. Maximum continuous operating temperature, $+82^\circ\text{C}$. *Rated in mfd. Av. whpg. wt., 2 oz.

Stock No.	Type	Mmf	Stock No.	Type	Mmf
13 L 201	V33	3.3	13 L 249	T18	180
13 L 202	V50	5	13 L 250	T20	200
13 L 203	V60	6	13 L 251	T22	220
13 L 204	V68	6.8	13 L 221	T24	240
13 L 205	V75	7.5	13 L 222	T25	250
13 L 206	V80	8	13 L 223	T27	270
13 L 207	O10	10	13 L 224	T30	300
13 L 208	O12	12	13 L 225	T33	330
13 L 209	O15	15	13 L 226	T35	350
13 L 210	O18	18	13 L 228	T39	390
13 L 211	O20	20	13 L 229	T40	400
13 L 212	O22	22	13 L 230	T47	470
13 L 213	O25	25	13 L 231	T50	500
13 L 214	O27	27	13 L 232	T56	560
13 L 215	O30	30	13 L 233	T60	600
13 L 216	Q33	33	13 L 234	T68	680
13 L 217	Q39	39	13 L 235	T75	750
13 L 218	Q47	47	13 L 236	T80	800
13 L 219	Q50	50	13 L 237	T82	820
13 L 220	Q56	56	13 L 238	D10	.001
13 L 241	O68	68	13 L 239	D12	.001
13 L 242	O75	75	13 L 252	D15	.001
13 L 243	O82	82	13 L 254	D18	.001
13 L 244	T100	100	13 L 255	D20	.002
13 L 245	T120	120	13 L 256	D22	.002
13 L 246	T12	120	13 L 257	D25	.002
13 L 247	T13	130	13 L 258	D27	.002
13 L 248	T15	150	13 L 260	D33	.003

TWO FOR.....30¢

Stock No.	Type	Mfd	EACH
13 L 259	D30	.003	18¢
13 L 261	D39	.0039	18¢
13 L 262	D40	.004	18¢
13 L 263	D43	.0043	18¢
13 L 264	D47	.0047	18¢
13 L 265	D50	.005	18¢
13 L 266	D56	.0056	24¢
13 L 267	D68	.0068	24¢
13 L 272	D75	.0075	33¢
13 L 273	S10	.01	33¢

CERAMIC CAPACITORS FOR TRANSISTORIZED CIRCUITS



Especially designed for circuits requiring extremely small components. Ideal for printed circuits, transistor-type radio sets. Provide very dependable service in bypass and coupling applications. Have excellent humidity resistance.

A Type TG. Have heavy, protective coating. All are rated at 50 working volts, 1000 WVDC. Have tolerance of $+80\%$ to -20% capacitance. S25, which is $+80\%$ to -30% .

Stock No.	Type	Mfd	Dia.	Wt.	EA.
15 L 995	D50	.005	1 $\frac{1}{2}$ "	2 oz.	50¢
15 L 996	S10	.01	1 $\frac{1}{2}$ "	3 oz.	15¢
15 L 997	S25	.025	1 $\frac{1}{2}$ "	3 oz.	15¢
15 L 998	S50	.05	1 $\frac{1}{2}$ "	3 oz.	30¢
15 L 999	P10	.1	1 $\frac{1}{2}$ "	4 oz.	30¢

B Monolithic Type. Solid homogeneous block construction assures excellent humidity resistance. Rated 25 working volts, DC. Temperature rating, -55°C to $+85^\circ\text{C}$. Tolerance, $\pm 20\%$. Size, $\frac{1}{2}$ "x $\frac{1}{2}$ "x $\frac{1}{4}$ ". 2 oz.

Stock No.	Type	Mfd	Dia.	EACH
16 L 698	5C9	.22	1.06	
16 L 699	5C10	.33	1.20	
16 L 699	5C11	.47	1.38	
16 L 699	5C12	.68	1.56	
16 L 699	5C13	1.0	1.98	

A Hypercon Type. Highly dependable, ultra-miniature ceramic discs. Superior to electrolytic capacitors of similar capacitance values, due to very low power factor. Tolerance, $\pm 10\%$. Guaranteed minimum value. All are rated working volts, DC. Shpg. wt., 2 oz.

Stock No.	Type	Mfd	Dia.	EACH
16 L 671	HY-120	1	.225*	30¢
16 L 672	HY-125	22	.275*	24¢
16 L 673	HY-130	47	.400*	24¢
16 L 674	HY-135	1.0	.595*	30¢
16 L 675	HY-150	2.2	.840*	30¢

SPRAGUE Midget and Subminiature Capacitors

VA AND TU ATOMS—MIDGET ELECTROLYTICS

Very compact dry electrolytics. All are metal-cased except, cardboard construction. Engineered especially for replacements in tough TV applications—such as power supplies, decoupling circuits, cathode bypass circuits, etc. Will withstand the high surge voltages and high ripple currents commonly found in television circuits. Very low leakage. Operate efficiently at temperatures as high as 85°C. TU type; separate negative leads. Av. shpg. wt., 6 oz.



A SINGLE SECTION

Stock No.	Type TVA-	Mfd	WV DC	Size	EA.	Stock No.	Type TVA-	Mfd	WV DC	Size	EA.	Stock No.	Type TVA-	Mfd	WV DC	Size	EA.
981	1100	50	6	3/4x1 1/4"	.57	15 L 858	1311	150	50	3/4x1 1/4"	.93	16 L 247	15751	140	300	3/4x1 3/4"	1.89
230	1101	100	6	1/2x1 1/2"	.72	15 L 859	1312	250	50	3/4x1 1/4"	1.05	16 L 616	1601	4	350	3/4x1 1/2"	.63
231	1102	250	6	3/4x1 1/4"	.81	15 L 912	1402	4	150	3/4x1 1/4"	.60	15 L 811	1603	8	350	3/4x1 1/2"	.72
232	1103	500	6	3/4x1 1/4"	.93	16 L 241	1403	5	150	3/4x1 1/4"	.60	15 L 884	1608	20	350	3/4x1 1/2"	.81
233	1105	1500	6	1/2x2 1/4"	1.26	15 L 913	1405	8	150	3/4x1 1/4"	.63	15 L 983	1611	40	350	3/4x1 1/2"	1.05
861	1106	2000	6	3/4x2 1/4"	1.38	15 L 226	1406	10	150	3/4x1 1/4"	.66	15 L 984	1613	60	350	1/2x2 1/4"	1.17
234	1130	100	12	3/4x1 1/4"	.72	15 L 194	1407	12	150	3/4x1 1/4"	.66	16 L 615	1701	2	450	3/4x1 1/2"	.66
862	1131	250	12	3/4x1 1/4"	.87	15 L 195	1409	16	150	3/4x1 1/4"	.69	15 L 170	1702	4	450	3/4x1 1/2"	.69
863	1132	500	12	3/4x1 1/4"	1.02	15 L 196	1410	20	150	3/4x1 1/4"	.72	15 L 171	1704	8	450	3/4x1 1/2"	.75
235	1133	1000	12	3/4x2 1/4"	1.35	16 L 242	1411	25	150	3/4x1 1/4"	.75	15 L 225	1705	10	450	3/4x1 1/2"	.78
236	1160	100	15	3/4x1 1/4"	.75	15 L 197	1412	30	150	3/4x1 1/4"	.78	15 L 172	1706	12	450	3/4x1 1/2"	.81
237	1161	250	15	3/4x1 1/4"	.93	15 L 198	1413	40	150	3/4x1 1/4"	.81	15 L 173	1708	16	450	3/4x1 1/2"	.84
238	1162	500	15	3/4x2 1/4"	1.05	15 L 199	1414	50	150	3/4x1 1/4"	.84	15 L 174	1709	20	450	3/4x2 1/4"	.93
239	1163	1000	15	3/4x2 1/4"	1.38	16 L 243	1415	60	150	3/4x1 1/4"	.90	15 L 169	1711	30	450	3/4x2 1/4"	1.02
207	1203	5	25	3/4x1 1/4"	.60	15 L 878	1418	80	150	3/4x1 1/4"	.96	15 L 178	1712	40	450	3/4x2 1/4"	1.08
205	1204	10	25	3/4x1 1/4"	.60	16 L 619	1420	100	150	3/4x2 1/4"	1.05	15 L 991	1713	50	450	3/4x3 1/4"	1.26
206	1205	25	25	3/4x1 1/4"	.60	16 L 244	1423	200	150	1x2 1/4"	1.32	16 L 248	1714	60	450	1x1 1/4"	1.68
867	1207	100	25	3/4x1 1/4"	.81	16 L 245	1425	300	150	1 1/4x3 3/4"	1.53	18 L 219	1718	100	450	1 1/4x3 1/4"	1.92
868	1208	250	25	3/4x1 1/4"	1.02	16 L 246	1480	200	200	1 1/4x3 3/4"	1.74	16 L 613	1802	10	475	3/4x1 1/2"	.81
869	1209	500	25	3/4x2 1/4"	1.38	15 L 185	1501	4	250	3/4x1 1/4"	.60	16 L 614	1804	20	475	3/4x2 1/4"	.96
870	1300	2	50	3/4x1 1/4"	.54	16 L 617	1503	10	250	3/4x1 1/4"	.62	15 L 175	1902	16	500	3/4x2 1/4"	.78
200	1303	5	50	3/4x1 1/4"	.60	15 L 187	1505	12	250	3/4x1 1/4"	.72	15 L 177	1906	20	500	1x2 1/4"	.96
201	1304	10	50	3/4x1 1/4"	.60	15 L 188	1507	16	250	3/4x1 1/4"	.78	16 L 249	1962	8	600	1x3 1/4"	1.71
202	1306	25	50	3/4x1 1/4"	.63	15 L 189	1508	20	250	1 1/4x2 1/4"	.81	16 L 256	1963	10	600	1x3 1/4"	1.77
203	1308	100	50	3/4x1 1/4"	.72	15 L 190	1510	30	250	3/4x2 1/4"	.87	16 L 258	1965	12	600	1x3 1/4"	2.07
876	1310	250	50	3/4x1 1/4"	.84	15 L 191	1511	40	250	3/4x2 1/4"	.93	16 L 258	1966	20	600	1x4 1/4"	2.13

B DUAL SECTION

Stock No.	Type TVA or TU+	Mfd	WV DC	Size	EACH
L 255	2315	10-10	50	3/4x1 1/4"	.84
L 245	2415	8-8	150	3/4x1 1/4"	.90
L 254	2420	16-16	150	3/4x1 1/4"	1.08
L 253	2428	20-20	150	3/4x1 1/4"	1.08
L 257	2421	30-20	150	3/4x1 1/4"	1.02
L 252	2438	40-20	150	3/4x1 1/4"	1.05
L 251	2434	30-30	150	3/4x1 1/4"	1.08
L 249	2420	40-20	150	1 1/4x2 1/4"	1.32
L 250	2428	40-40	150	1 1/4x2 1/4"	1.08
L 243	2445	40-40	150	1 1/4x2 1/4"	1.08
L 244	2450	50-30	150	3/4x1 1/4"	.17
L 305	2453	50-50	150	3/4x2 1/4"	1.26
L 306	2460	80-30	150	3/4x2 1/4"	.32
L 259	2462	80-50	150	3/4x2 1/4"	1.41
L 262	2464	100-100	150	1 1/4x2 1/4"	1.92
L 263	2467	200-50	150	1 1/4x3 1/4"	1.59
L 221	2640	140-50	350	1 1/4x3 1/4"	2.49
L 220	2720	8-8	450	3/4x1 1/4"	1.12
L 221	2720	8-8	450	1 1/4x3 1/4"	1.29
L 222	2725	16-8	450	3/4x2 1/4"	1.20
L 884	2722	10-10	450	3/4x1 1/4"	1.11
L 227	2730	16-16	450	3/4x2 1/4"	1.68
L 227	2730	20-20	450	3/4x2 1/4"	1.50
L 986	2735	30-30	450	1 1/4x3 1/4"	1.80
L 987	2740	40-40	450	1 1/4x3 1/4"	2.04
L 220	2711	80-100	450-50	1 1/4x4 1/4"	2.22

C TRIPLE SECTION

Stock No.	Type TVA-	Mfd	WV DC	Size	EACH
15 L 307	3440	20-20-20	150	3/4x1 1/4"	1.50
15 L 308	3448	40-30-20	150	3/4x2 1/4"	1.56
15 L 309	3451	40-40-40	150	1x2 1/4"	1.68
15 L 310	3453	80-30-20	150	1x2 1/4"	1.74
15 L 312	3455	80-40-20	150	1x2 1/4"	1.74
15 L 988	3415	20-20-20	150-150-25	3/4x1 1/4"	1.47
15 L 312	3423	40-30-20	150-150-25	3/4x1 1/4"	1.50
15 L 328	3427	40-40-100	150-150-25	3/4x2 1/4"	1.68
15 L 313	3430	50-30-20	150-150-25	3/4x2 1/4"	1.59
15 L 329	3433	50-30-200	150-150-25	1x2 1/4"	1.65
15 L 330	3436	50-50-20	150-150-25	1x2 1/4"	1.65
18 L 223	3437.1	80-40-20	150-150-25	1 1/4x1 1/4"	1.68
15 L 990	3716	12-12-20	450-450-25	1x1 1/4"	1.38

QUADRUPLER SECTION

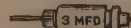
Stock No.	Type TVA-	Mfd	WV DC	Size	EACH
16 L 284	45761	140-5-200-30	300-300-200-150	1 1/4x4 1/4"	3.63
16 L 288	46599	80-10-40-100	400-400-300-50	1 1/4x4 1/4"	3.27
18 L 224	47087	10-40-40-40	450-300-250-250	1 1/4x4 1/4"	3.97
15 L 991	47488	40-20-20-10	450	1 1/4x4 1/4"	3.82
15 L 956	47501	40-40-20-20	450	1 1/4x4 1/4"	3.27

Not illustrated.

TYPE TE "LITL-LYTIC" SUBMINIATURE CAPACITORS

Extensive selection of ultra-small 300 series electrolytics. Excellent use in transistor radios, transistor circuits in hearing aids, pocket recorders, wireless microphones, and other miniature electronic equipment. Hermetically sealed, aluminum enclosed. All welded construction.

Extensive selection of ultra-small 300 series electrolytics. Excellent use in transistor radios, transistor circuits in hearing aids, pocket recorders, wireless microphones, and other miniature electronic equipment. Hermetically sealed, aluminum enclosed. All welded construction—no pressure joints to cause open or intermittent circuits. Extremely low leakage current and long shelf life. Withstand temperatures up to 85°C. Size given in table below is diameter x length. Av. shpg. wt., 1 oz.



Stock No.	Type TE-	Mfd	WV DC	Size	EA.	Stock No.	Type TE-	Mfd	WV DC	Size	EA.
028	1055	25	3	1/4x1 1/4"	.75	16 L 045	1128	10	12	1/4x1 1/4"	.81
047	1058	50	3	1/4x1 1/4"	.84	11 L 013	1132	25	12	3/4x1 1/4"	.84
654	1064	200	3	3/4x1 1/4"	.90	11 L 014	1133	30	12	3/4x1 1/4"	.84
656	1066	300	3	3/4x1 1/4"	.99	11 L 767	1133	50	12	3/4x1 1/4"	.93
658	1068	500	3	3/4x1 1/2"	1.05	11 L 769	1135	100	12	3/4x1 1/4"	1.05
030	1080	1	6	1/4x1 1/4"	.75	11 L 771	1136	150	12	3/4x1 1/4"	1.14
032	1081	2	6	1/4x1 1/4"	.75	11 L 772	1137	200	12	3/4x1 1/4"	1.23
032	1082	3	6	1/4x1 1/4"	.75	11 L 773	1148	1	15	3/4x1 1/4"	.75
034	1084	5	6	1/4x1 1/4"	.75	11 L 774	1149	2	15	3/4x1 1/4"	.75
036	1087	10	6	1/4x1 1/4"	.81	11 L 015	1150	3	15	3/4x1 1/4"	.75
037	1089	15	6	1/4x1 1/4"	.81	16 L 624	1152	5	15	3/4x1 1/4"	.84
038	1091	30	6	1/4x1 1/4"	.84	16 L 625	1153	10	15	3/4x1 1/4"	.84
039	1092	50	6	1/4x1 1/4"	.84	16 L 626	1155	15	15	3/4x1 1/4"	.84
041	1100	50	6	3/4x1 1/4"	.84	16 L 626	1156	25	15	3/4x1 1/4"	.87
026	1101	60	6	3/4x1 1/4"	.84	16 L 628	1157.1	150	15	3/4x1 1/4"	.87
659	1101.5	75	6	3/4x1 1/4"	.87	16 L 629	1158	30	15	3/4x1 1/4"	.90
753	1102	100	6	3/4x1 1/4"	.90	16 L 631	1160	100	15	3/4x1 1/4"	.96
039	1103	200	6	3/4x1 1/4"	.93	16 L 632	1161	100	15	3/4x1 1/4"	1.08
661	1106	300	6	3/4x1 1/2"	1.08	16 L 634	1163	150	15	3/4x1 1/4"	1.17
756	1114	10	10	3/4x1 1/4"	.81	16 L 635	1164	200	15	3/4x1 1/4"	1.26
043	1118	25	10	3/4x1 1/4"	.81	11 L 779	1200	1	25	3/4x1 1/4"	.75
621	1119	50	10	3/4x1 1/4"	.92	11 L 780	1201	2	25	3/4x1 1/4"	.78
622	1119.3	100	10	3/4x1 1/4"	1.02	16 L 046	1202	5	25	3/4x1 1/4"	.84
757	1119.6	200	10	3/4x1 1/4"	1.02	16 L 047	1203	6	25	3/4x1 1/4"	.84
623	1120	1	12	3/4x1 1/4"	.75	16 L 048	1204	10	25	3/4x1 1/4"	.87
010	1121	2	12	3/4x1 1/4"	.75	16 L 049	1205	15	25	3/4x1 1/4"	.87
044	1127	5	12	3/4x1 1/4"	.81	16 L 049	1206	20	25	3/4x1 1/4"	.90



"ORANGE DROP" CAPACITORS "MYLAR"-PAPER

Extremely small tubular capacitors. Dual dielectric windings, rock hard case, radial leads. Exact replacements in printed circuits of RCA, Philco and G.E. Double-dipped in orange epoxy resin to guard against heat and moisture. ±10% Wt., 2 oz.

200 WVDC

Stock No.	Type	Mfd	Size	EACH
13 L 017	2PS-S20	.02	3/4x1 1/4"	15¢
13 L 019	2PS-S22	.022	2 5/8x1 1/4"	15¢
13 L 018	2PS-S47	.047	2 5/8x1 1/4"	15¢
13 L 019	2PS-S68	.068	3 1/2x1 1/4"	15¢
13 L 020	2PS-P10	.1	3 1/2x1 1/4"	21¢
13 L 031	2PS-P20	.2	1 3/4x1 1/4"	24¢
13 L 021	2PS-P25	.25	5/8x1 1/4"	24¢
17 L 012	2PS-P47	.47	4 5/8x1 1/4"	36¢
13 L 022	2PS-P50	.5	2 3/4x1 1/4"	36¢

400 WVDC

13 L 023	4PS-S10	.01	1 3/4x1 1/4"	15¢
13 L 037	4PS-S15	.015	2 1/4x1 1/4"	15¢
13 L 024	4PS-S20	.02	1 3/4x1 1/4"	15¢
13 L 025	4PS-S30	.03	2 5/8x1 1/4"	18¢
13 L 026	4PS-S47	.047	2 5/8x1 1/4"	18¢
13 L 027	4PS-S50	.05	3 1/2x1 1/4"	18¢
17 L 011	4PS-S68	.068	3 1/2x1 1/4"	21¢
13 L 028	4PS-P10	.1	3 1/2x1 1/4"	21¢
13 L 036	4PS-P15	.15	3 1/2x1 1/4"	24¢
13 L 029	4PS-P20	.2	1 3/4x1 1/4"	27¢
13 L 030	4PS-P22	.22	2 5/8x1 1/4"	27¢
13 L 031	4PS-P25	.25	3 1/2x1 1/4"	30¢

600 WVDC

13 L 032	6PS-D10	.001	2 1/4x1 1/4"	15¢
13 L 033	6PS-D15	.0015	2 1/4x1 1/4"	15¢
13 L 034	6PS-D20	.002	2 1/4x1 1/4"	15¢
13 L 036	6PS-D22	.0022	2 1/4x1 1/4"	15¢
13 L 038	6PS-D30	.003	1 3/4x1 1/4"	15¢
13 L 039	6PS-D33	.0033	2 1/4x1 1/4"	15¢
13 L 042	6PS-D40	.04	1 3/4x1 1/4"	15¢
13 L 043	6PS-D47	.047	2 5/8x1 1/4"	15¢
13 L 049	6PS-D50	.05	2 5/8x1 1/4"	15¢
13 L 050	6PS-D60	.06	1 3/4x1 1/4"	15¢
13 L 051	6PS-D68	.068	2 1/4x1 1/4"	18¢
17 L 900	6PS-D75	.075	2 1/4x1 1/4"	18¢
13 L 144	6PS-D80	.08	2 1/4x1 1/4"	18¢
13 L 052	6PS-S10	.01	2 5/8x1 1/4"	18¢
13 L 053	6PS-S15	.015	2 5/8x1 1/4"	18¢
13 L 054	6PS-S20	.02	3 1/4x1 1/4"	18¢
13 L 055	6PS-S22	.022	3 1/4x1 1/4"	18¢
17 L 901	6PS-S25	.025	3 1/4x1 1/4"	18¢
13 L 056	6PS-S30	.03	3 1/4x1 1/4"	21¢
17 L 903	6PS-S35	.035	1 3/4x1 1/4"	21¢
13 L 057	6PS-S40	.04	2 1/2x1 1/4"	24¢
13 L 058	6PS-S47	.047	2 1/2x1 1/4"	24¢
13 L 059	6PS-S50	.05	2 1/2x1 1/4"	24¢
17 L 904	6PS-S56	.056	2 1/2x1 1/4"	24¢
13 L 142	6PS-S60	.06	3 1/4x1 1/4"	24¢
17 L 905	6PS-S68	.068	3 1/4x1 1/4"	27¢
17 L 906	6PS-S75	.075	3 1/4x1 1/4"	27¢
13 L 143	6PS-S80	.08	3 1/4x1 1/4"	27¢
13 L 060	6PS-P10	.1	3 1/4x1 1/4"	27¢
17 L 913	6PS-P15	.15	3 1/4x1 1/4"	30¢
13 L 061	6PS-P20	.2	2 1/4x1 1/4"	32¢
17 L 908	6PS-P22	.22	2 5/8x1 1/4"	38¢
13 L 062	6PS-P25	.25	3 1/4x1 1/4"	45¢

"BLACK BEAUTY" CAPACITOR KITS



TK-1.75 "Black Beauty" capacitors in FREE plastic case, 600 WVDC. Compartmented case contains: 5—.001, 5—.002, 2—.0047, 8—.005, 15—.01, 8—.02, 2—.03, 5—.047, 2—.05, 8—.1 and 2—.25 mfd. 1 1/4x1 1/4x1/2". 14.70

TK-3.36 "Black Beauty" buffer capacitors of the most used ratings. Range from .001 to .03 mfd. 1600 WVDC. In FREE plastic case. Size, 1 3/4x1 1/4x1/2". Wt., 2 1/2 lbs. 14.25

TK-5. FREE steel cabinet, complete with 59 molded tubulars in 9 popular ratings. From .001 to .25 mfd, 600 WVDC. Size, 4 1/2x3 1/2x9 1/2". Wt., 5 lbs. 12.75

TK-6. FREE 2-drawer steel cabinet with 119 tubulars in 10 popular ratings. Range from .001 to .25 mfd at 600 WVDC. Size, 4 1/2x7x9 1/2". Wt., 8 lbs. 24.00



"BLACK BEAUTY"—"MYLAR" PAPER TELETYPE

Hi-temp molded plastic cased tubulars. Highly resistant to heat and moisture; ruggedly built; completely insulated. Features special "DIFILM" ("Mylar" paper) type capacitor. 200 to 1000 v. types operate to 105° C; 1600 v. and above, operate to 85° C. 1600-6000 v. types are oil impregnated. All are ±10% tolerance. Av. shpg. wt., 3 oz.

200 WVDC

Stock No.	Type	Mfd	Size	EACH
15 L 120	2TM-S20	.02	3/4x1 1/4"	15¢
15 L 000	2TM-S22	.022	2 5/8x1 1/4"	15¢
15 L 149	2TM-S47	.047	2 5/8x1 1/4"	15¢
15 L 121	2TM-S68	.068	3 1/2x1 1/4"	21¢
15 L 122	2TM-P10	.1	3 1/2x1 1/4"	21¢
15 L 145	2TM-P15	.15	3 1/2x1 1/4"	21¢
15 L 146	2TM-P22	.22	3 1/2x1 1/4"	24¢
15 L 147	2TM-P25	.25	3 1/2x1 1/4"	24¢
15 L 148	2TM-P47	.47	4 5/8x1 1/4"	36¢
15 L 123	2TM-P50	.5	2 3/4x1 1/4"	36¢
15 L 124	2TM-M1	1.0	3 1/2x1 1/4"	63¢

400 WVDC

Stock No.	Type	Mfd	Size	EA.
15 L 125	4TM-S10	.01	3/4x1 1/4"	15¢
15 L 001	4TM-S15	.015	2 1/4x1 1/4"	15¢
15 L 126	4TM-S20	.02	3/4x1 1/4"	15¢
15 L 013	4TM-S22	.022	2 5/8x1 1/4"	18¢
15 L 002	4TM-S25	.025	2 5/8x1 1/4"	18¢
15 L 003	4TM-S30	.03	3/4x1 1/4"	18¢
15 L 004	4TM-S40	.04	3/4x1 1/4"	18¢
15 L 014	4TM-S47	.047	2 5/8x1 1/4"	18¢
15 L 127	4TM-S68	.068	3 1/2x1 1/4"	21¢
15 L 015	4TM-S68	.068	3 1/2x1 1/4"	21¢
15 L 128	4TM-P10	.1	3 1/2x1 1/4"	21¢
15 L 011	4TM-P15	.15	3 1/2x1 1/4"	24¢
15 L 129	4TM-P20	.2	3 1/2x1 1/4"	27¢
15 L 012	4TM-P22	.22	2 5/8x1 1/4"	27¢
15 L 129	4TM-P25	.25	3 1/2x1 1/4"	30¢
15 L 005	4TM-P47	.47	4 5/8x1 1/4"	45¢
15 L 010	4TM-P50	.5	3 1/2x1 1/4"	45¢
15 L 009	4TM-M1	1.0	1 1/2x1 1/4"	75¢

600 WVDC

Stock	Type	Mfd	Size	EA.
16 L 250	6TM-T10	.0001		
16 L 251	6TM-T25	.00025		
16 L 252	6TM-T50	.0005	3/4x1"	15¢
16 L 253	6TM-T100	.001		
15 L 084	6TM-D15	.0015		
15 L 071	6TM-D20	.002	3/4x1"	15¢
15 L 072	6TM-D22	.0022		
15 L 073	6TM-D30	.003		
15 L 074	6TM-D33	.0033		
15 L 075	6TM-D40	.04	3/4x1 1/4"	15¢
15 L 076	6TM-D47	.047		
15 L 077	6TM-D50	.05		
15 L 078	6TM-D60	.06		
16 L 254	6TM-D68	.068	3/4x1 1/4"	15¢
15 L 523	6TM-D80	.08	3/4x1 1/4"	18¢
15 L 076	6TM-S10	.01	3 1/4x1 1/4"	24¢
15 L 094	6TM-S15	.015	3 1/4x1 1/4"	24¢
15 L 074	6TM-S20	.02	2 1/2x1 1/4"	24¢
16 L 255	6TM-S22	.022	2 1/2x1 1/4"	24¢
15 L 078	6TM-S30	.03	3 1/4x1 1/4"	21¢
15 L 526	6TM-S33	.033	3 1/4x1 1/4"	21¢
15 L 096	6TM-S35	.035	3 1/4x1 1/4"	21¢
15 L 079	6TM-S40	.04	2 1/2x1 1/4"	24¢
15 L 098	6TM-S47	.047	2 1/2x1 1/4"	24¢
15 L 080	6TM-S50	.05	3 1/4x1 1/4"	24¢
15 L 081	6TM-S60	.06	3 1/4x1 1/4"	24¢
15 L 007	6TM-S68	.068	3 1/4x1 1/4"	27¢

600 WVDC (Cont'd)

Stock No.	Type	Mfd	Size
15 L 082	6TM-P10	.1	3 1/2x1 1/4"
15 L 524	6TM-P15	.15	3 1/2x1 1/4"
15 L 525	6TM-P20	.2	3 1/2x1 1/4"
15 L 008	6TM-P22	.22	2 5/8x1 1/4"
15 L 083	6TM-P25	.25	3 1/2x1 1/4"
15 L 526	6TM-P47	.47	4 5/8x1 1/4"
16 L 260	6TM-S50	.5	3 1/2x1 1/4"
16 L 261	6TM-M1	1.0	1 1/2x1 1/4"

1000 WVDC

15 L 928	10TM-T50	.0005	3/4x1"
15 L 929	10TM-D10	.001	3/4x1"
15 L 930	10TM-D15	.0015	3/4x1"
15 L 931	10TM-D20	.002	3/4x1 1/4"
15 L 932	10TM-D22	.0022	3/4x1 1/4"
15 L 933	10TM-D30	.003	3/4x1 1/4"
15 L 017	10TM-D40	.04	3/4x1 1/4"
15 L 934	10TM-D47	.047	3/4x1 1/4"
15 L 936	10TM-D50	.05	3/4x1 1/4"
15 L 937	10TM-D68	.068	3/4x1 1/4"
15 L 938	10TM-S10	.01	3 1/4x1 1/4"
15 L 939	10TM-S15	.015	3 1/4x1 1/4"
15 L 940	10TM-S20	.02	2 1/2x1 1/4"
15 L 941	10TM-S22	.022	2 1/2x1 1/4"
15 L 942	10TM-S30	.03	3 1/4x1 1/4"
15 L 943	10TM-S35	.035	3 1/4x1 1/4"
15 L 944	10TM-S47	.047	3 1/4x1 1/4"
15 L 945	10TM-S50	.05	3 1/4x1 1/4"
15 L 946	10TM-S68	.068	3 1/4x1 1/4"
15 L 947	10TM-P10	.1	3 1/2x1 1/4"

1600 WVDC

16 L 270	MB-T5	.0005	3/4x1"
16 L 019	MB-D1	.001	3/4x1"
16 L 271	MB-D15	.0015	3/4x1"
16 L 158	MB-D2	.002	3/4x1"
16 L 272	MB-D22	.0022	3/4x1"
15 L 159	MB-D3	.003	3/4x1"
16 L 273	MB-D33	.0033	3/4x1"
16 L 160	MB-D4	.004	3/4x1"
16 L 274	MB-D47	.047	3/4x1"
16 L 161	MB-D5	.005	3/4x1"
15 L 162	MB-D6	.006	3 1/2x1 1/4"
15 L 163	MB-D68	.068	3 1/2x1 1/4"
15 L 163	MB-D7	.007	3 1/2x1 1/4"
15 L 164	MB-D75	.0075	3 1/2x1 1/4"
15 L 165	MB-D8	.008	
15 L 166	MB-S1	.01	1 1/4x1 1/4"
15 L 167	MB-S15	.015	1 1/4x1 1/4"
15 L 168	MB-S2	.02	1 1/4x1 1/4"
15 L 024	MB-S22	.022	3 1/4x1 1/4"
16 L 277	MB-S3	.03	3 1/4x1 1/4"
16 L 278	MB-S4	.04	3 1/4x1 1/4"
16 L 280	TR-15	.05	3 1/2x1 1/4"

6000 WVDC

15 L 853 is rated at 10,000 WVDC.

Stock No.	Type	Mfd	Size
15 L 850	TVM-356	.0005	3 1/4x1 1/4"
15 L 851	TVM-316	.001	3 1/4x1 1/4"
15 L 852	TVM-256	.005	3 1/4x1 1/4"
15 L 853	TVM-351	.0005	3 1/4x1 1/4"

ELECTROLYTIC CAPACITOR KITS



1310, 1410, 1413, 1422, 1704, 1705, 1709, 1711, 1712, 1716, 2450, 2453, 2454. Voltage ratings from 25 to 450 WVDC. Blue plastic cabinet has nine clear plastic, compartmentalized drawers, complete with adjustable dividers. Cabinets interlock when stacked. Size, 5 5/8x4x6 1/4". Wt., 3 lbs. 16.14

EK-1 Atom Electrolytic Capacitor Kit. Consists of the following types of TVA capacitors: 1 each—1205, 1303, 1304, 1410, 1704, 1711, 1716, 2450, 2453, 2454 each—1—705, 1709, 1712. Capacitors are extremely small in size, rated at 80°C or 185°F. In FREE crystal-clear compartmentalized plastic case—each capacitor is clearly identified. Case size, 1 3/4x1 1/4x1 1/4". Wt., 1 lb. 13.70

EK-9 Deluxe Assortment

One each of 18 most popular TVA capacitors in FREE plastic cabinet. Consists of following types: 1205, 1207, 1303, 1304, 1306, 1308, 1310, 1410, 1413, 1422, 1704, 1705, 1709, 1711, 1712, 1716, 2450, 2453, 2454. Voltage ratings from 25 to 450 WVDC. Blue plastic cabinet has nine clear plastic, compartmentalized drawers, complete with adjustable dividers. Cabinets interlock when stacked. Size, 5 5/8x4x6 1/4". Wt., 3 lbs. 16.14

ASSORTMENTS WITH FREE JOB TRAY



Get this handy job tray FREE with either capacitor assortment listed below. Made of high-impact plastic—won't crack or shatter if dropped. Hinged lid for neat, convenient storage.

TK-26 Assortment. Has 40 "Black Beauty" molded tubulars plus job tray. Consists of each—.001, .002, .005, .01, .02, .047, .05. .1. All are 600 WVDC. Feature dual dielectric—combination of polyester film and paper. Wt., 1 1/2 lbs. 7.00

TK-27 Assortment. 40 "Orange Drop"

"Twist-Prong" Capacitors

SPRAGUE

TYPE TVL AND PCL MIDGET CAN CAPACITORS

"Lok" hermetically sealed aluminum can capacitors. is common negative. Terminals welded to cathodes. *PCL types for use in printed circuits. With both bakelite and metal mounting washers. Shpg. wt., 6 oz.



Twist-Prong Capacitor Size Chart

ie	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L
	3/4x2" 1x2"	C D	1x1 1/2" 1x3"	E F	1 1/2x2" 1x4"	G H	1 3/8x2" 1 1/2x2 1/2"	J K	1 1/2x3" 1 3/8x3 1/2"	L	1 3/8x4"

SINGLE SECTION

K	Cap. Mfd	WV DC	TVL		EACH	Stock No.	Cap. Mfd	WV DC	TVL		EACH	Stock No.	Cap. Mfd	WV DC	TVL		EACH
			Type	Size					Type	Size					Type	Size	
367	2000	15	1115	G	1.83	19L351	200	150	1431	L	1.47	19L314	10	450	1705	B	.93
367	1000	15	1115	G	1.83	19L352	300	150	1434	K	1.68	19L315	15	450	1709	B	1.02
365	2000	15	1168	G	2.07	19L353	150	200	1473	L	1.89	19L316	20	450	1714	B	1.08
366	3000	15	1170	J	2.55	19L358	20	250	1509	B	.96	19L317	30	450	1720	C	1.17
362	500	25	1220	B	1.53	19L339	40	250	1519	B	1.08	19L324	40	450	1725	D	1.23
363	1000	25	1230	G	2.13	19L340	100	250	1535	D	1.62	19L325	50	450	1728	D	1.41
357	100	50	1317	A	.99	19L341	150	250	1540	H	1.86	19L326	80	450	1735	H	1.83
358	500	50	1330	B	1.59	19L342	200	250	1547	B	2.19	19L327	100	450	1750	J	2.31
359	1000	50	1338	K	2.25	19L344	80	350	1573	F	.94	19L328	125	450	1760	J	2.50
360	1500	50	1341	L	2.64	19L335	100	300	1578	F	1.70	19L307	10	500	1940	B	1.02
344	50	150	1415	B	.99	19L336	150	300	1584	K	2.14	19L308	20	500	1943	C	1.11
345	80	150	1420	C	1.11	19L337	250	300	1590	L	3.33	19L309	30	500	1947	D	1.20
346	100	150	1423	C	1.20	19L340	40	350	1621	B	1.20	19L310	40	500	1950	F	1.50
347	120	150	1425	C	.29	19L341	50	350	1622	B	1.26	19L311	80	500	1958	J	2.16
348	140	150	1428	D	.29	19L331	80	350	1630	K	.71	19L312	90	500	1960	K	2.10
349	150	150	1429	D	.29	19L332	125	350	1638	K	2.37						
350	150	150	1430	J	.29	19L333	150	350	1642	L	2.37						

DUAL SECTION

K	Cap. Mfd	WV DC	TVL		EACH	Stock No.	Cap. Mfd	WV DC	TVL		EACH	Stock No.	Cap. Mfd	WV DC	TVL		EACH
			Type	Size					Type	Size					Type	Size	
116	50-50	15	2160	E	2.64	19L400	150-150	250	2535	L	3.09	19L385	60-60	450	2770	K	2.37
120	50-50	50	2320	B	1.02	19L404	40-40	300	2575	H	2.25	19L386	60-60	450	2772	K	2.70
107	100-100	50	2326	B	1.26	19L401	80-80	300	2585	J	2.43	19L387	80-10	450	2776	J	2.16
406	20-20	150	2415	B	1.02	19L395	15-15	350	2625	B	1.35	19L388	80-20	450	2776.5	J	2.34
102	50-50	150	2422	C	1.11	19L396	30-30	350	2628	D	1.74	19L389	80-40	450	2778	K	3.03
108	40-20	150	2425	B	.99	19L397	30-30	350	2628	D	1.74	19L390	100-40	450	2780	K	2.70
102	40-40	150	2428	C	1.14	19L004	80-80	350	2634	L	2.46	19L393	10-20	450-25	2701	B	1.02
103	50-30	150	2432	C	1.20	19L394	100-100	350	2641	L	3.69	19L392	80-100	450-50	2711	J	2.25
104	50-30	150	*2432	C	1.20	19L398	80-60	400	2677	J	2.82	19L373	15-15	475	2820	C	1.41
105	50-50	150	2435	C	.29	19L376	10-10	450	2750	C	1.14	19L374	30-10	475	2824	D	1.56
106	40-30	150	2439	C	1.32	19L377	20-10	450	2754	C	1.53	19L375	80-10	475	2830	K	2.94
107	80-40	150	2442	H	1.38	19L378	15-15	450	2753	C	1.35	19L376	80-50	475	2851	L	3.12
118	80-50	150	2442	C	1.44	19L379	20-20	450	2755	D	1.53	19L368	10-10	500	2933	C	1.17
114	200-5	150	2444	J	1.62	19L380	30-10	450	2757	D	1.44	19L369	20-20	500	2935	H	1.71
115	200-200	150	2447	L	2.40	19L381	30-30	450	2759	H	1.83	19L370	30-30	500	2937	J	1.95
405	200-5	200	2470	B	1.83	19L382	40-20	450	2762	H	1.95	19L371	40-40	500	2940	J	2.58
402	40-40	200	2515	B	1.14	19L383	40-20	450	2764	J	2.04	19L372	60-40	500	2944	K	2.76
403	40-40	250	2520	E	1.50	19L384	50-50	450	2767	J	2.31						

TRIPLE SECTION

K	Cap. Mfd	WVDC	TVL		EACH	Stock No.	Cap. Mfd	WVDC	TVL		EACH	Stock No.	Cap. Mfd	WVDC	TVL		EACH
			Type	Size					Type	Size					Type	Size	
305	20-20-20	25	3210	B	1.17	19L179	100-200-60	300-150-150	3560.5	L	3.00	19L157	80-20-20	450-450-50	3757	L	2.88
306	40-40-40	25	3230	B	1.92	19L178	200-60-20	300-250-250	3563	L	3.30	19L154	40-40-40	450-450-150	3758	J	2.49
307	80-80-80	150-150-10	*3411	L	1.68	19L177	100-60-20	300-250-250	3582	L	3.94	19L152	40-10-80	450-450-200	3761	J	2.34
303	80-60-20	150-150-10	*3413.4	C	2.04	19L174	10-10-10	300	3580	B	1.44	19L153	40-10-10	450-450-200	3764	L	2.30
304	90-40-40	150-150-10	3414.5	H	2.10	19L175	120-50-40	300	3585	L	3.51	19L129	10-10-10	450	3776	D	1.56
195	40-20-100	150-150-25	3423	D	1.50	19L176	150-100-30	300	*3586	L	3.81	19L130	15-15-10	450	3778	E	2.67
196	40-40-20	150-150-25	3426	B	.64	19L016	10-50-100	350-150-50	3608	L	1.71	19L131	20-10-10	450	3779	H	1.74
197	40-20-20	150-150-25	3423.2	C	1.42	19L173	30-30-20	350-350-25	3620	D	1.89	19L132	20-20-10	450	3780	D	2.16
198	40-20-20	150-150-25	3427	C	1.42	19L174	30-30-20	350-350-25	3634	C	1.90	19L133	30-20-20	450	3781	K	2.94
199	50-50-20	150-150-25	3430	B	.59	19L171	20-10-20	350-350-25	3634	C	1.53	19L134	30-30-30	450	3782	K	2.61
177	60-40-20	150-150-25	3431.3	D	.83	19L170	20-20-20	350-350-25	3635	B	1.74	19L135	40-40-20	450	3784	J	2.58
181	70-30-20	150-150-25	*3431.1	C	.62	19L172	30-30-20	350-350-25	3636.3	G	2.04	19L136	40-40-10	450	3785	K	2.49
185	20-20-20	150	3433	B	.38	19L168	100-60-20	350-350-250	3639.2	L	3.30	19L137	40-40-20	450	3786	J	2.67
187	40-20-20	150	3437	C	.44	19L167	20-10-5	350-350-250	3639.4	L	3.30	19L138	40-40-40	450	3787	K	2.94
188	40-30-20	150	3438	B	.50	19L165	30-10-10	350	3639.3	C	1.95	19L139	60-20-20	450	3789	J	2.70
188	40-40-40	150	3440	E	1.56	19L166	60-40-20	350	3640	L	2.55	19L141	60-30-10	450	3790	J	2.76
189	50-40-30	150	*3441.2	C	.62	19L164	20-20-20	400-400-35	3678	D	1.71	19L150	80-40-20	450	3791	K	3.00
190	50-50-50	150	3442	D	.80	19L163	100-10-80	400-400-350	3689.3	L	3.66	19L151	80-40-20	450	3793	L	3.24
191	80-40-20	150	3443	D	1.65	19L162	40-90-50	450-150-150	3708	L	7.06	19L152	120-30-20	475	3840	J	2.67
192	80-40-20	150	3444	A	1.74	19L159	10-10-20	450-450-25	3721	L	1.44	19L126	40-10-10	475	3841	J	3.45
193	120-120-40	150	3448	J	2.43	19L159	10-10-20	450-450-25	3735	D	1.62	19L128	40-30-30	475	3843	L	3.09
194	200-100-60	150	3450	K	2.73	19L160	20-20-20	450-450-25	3739	D	1.83	19L124	40-40-100	500-500-200	3935	L	3.48
194	60-200-140	200-150-10	3461.4	L	2.88	19L161	40-40-20	450-450-25	3744	H	2.34	19L121	10-10-10	500	3952	D	1.62
183	80-10-20	200-200-50	3471	D	1.68	19L155	20-10-50	450-450-50	3751	D	1.71	19L122	30-20-20	500	3953	J	2.52
184	80-30-20	250-200-25	3519	B	1.68	19L011	60-10-100	450-450-80	3783	J	2.22	19L123	40-20-20	500	3955	K	3.03
180	40-20-20	250	3540	E	1.74	19L156	40-10-100	450-450-50	3754.2	J	2.58						

FOUR SECTION

K	Cap. Mfd	WVDC	TVL		EACH	Stock No.	Cap. Mfd	WVDC	TVL		EACH	Stock No.	Cap. Mfd
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Mica, Electrolytic and Paper Capacitors

ARCO-ELMENDO CAPACITORS



CM MOLDED SILVERED MICAS

Tiny capacitors in low-loss phenolic cases. 500 WVDC except †300 WVDC. * = .5 mm tolerance. Middle letter of Mfr's type shows temperature coefficient. Letter C = 200 parts/million/°C; letter D = 200 parts/letter E = -20, +100 parts. Sizes: CM-15, $\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$; CM-20, $\frac{1}{4} \times \frac{3}{8} \times \frac{1}{8}$ (E $\frac{2}{2}$); CM-30, $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$.

Stock No.	Type CM-15	Mfr's	Size	EACH
10 L424	C-010*	1		
10 L425	C-020*	2		
10 L426	C-030*	3		
10 L427	C-040*	4		
10 L428	C-100*	10		
10 L429	C-120*	12		
10 L436	E-150†	15		
10 L437	E-180†	18		
10 L438	E-200†	20		
10 L439	E-220†	22		
10 L466	E-240†	24		
10 L467	E-270†	27		
10 L468	E-300†	30		
10 L469	E-330†	33		
10 L470	E-360†	36		
10 L471	E-390†	39		
10 L472	E-430†	43		
10 L473	E-470†	47		
10 L474	E-500†	50		
10 L475	E-510†	51		
10 L476	E-560†	56		
10 L477	E-620†	62		
10 L480	E-680†	68		
10 L478	E-750†	75		
10 L479	E-820†	82		
10 L481	E-910†	91		
10 L497	E-101†	100		
10 L498	E-111†	110		
10 L499	E-121†	120		
10 L500	E-131†	130		
10 L515	E-151†	150		
10 L516	E-161†	160		
10 L517	E-181†	180		
10 L518	E-201†	200		
10 L519	E-221†	220		
10 L542	E-241†	240		
10 L543	E-251†	250		
10 L544	E-271†	270		
10 L545	E-301†	300		
10 L546	E-331†	330		
10 L547	E-361†	360		
10 L548	E-391†	390		
10 L549	E-431†	430		
10 L554	E-471†	470		
10 L555	E-501†	500		
10 L556	E-511†	510		

Stock No.	Type CM-20	Mfr's	Size	EACH
10 L557	D-561†	560		
10 L558	D-621†	620		
10 L559	D-681†	680		
10 L560	D-751†	750		
10 L568	D-821†	820		
10 L569	D-911†	910		
10 L583	E-102†	1000		
10 L584	E-112†	1100		
10 L585	E-122†	1200		
10 L586	E-132†	1300		
10 L587	E-152†	1500		
10 L588	E-162†	1600		
10 L589	E-182†	1800		
10 L594	E-202†	2000		
10 L595	E-222†	2200		
10 L596	E-242†	2400		
10 L422	E-252†	2500		
10 L423	E-272†	2700		

Stock No.	Type CM-20†	Mfr's	Size	EACH
10 L599	E-302†	3000		
10 L619	E-332†	3300		
10 L620	E-362†	3600		
10 L621	E-392†	3900		
10 L622	E-432†	4300		
10 L623	E-472†	4700		
10 L624	E-502†	5000		
10 L638	E-512†	5100		

Stock No.	Type CM-30	Mfr's	Size	EACH
10 L639	E-562†	5600		
10 L640	E-622†	6200		

Stock No.	Type CM-35	Mfr's	Size	EACH
10 L641	E-682†	6800		
10 L642	E-752†	7500		
10 L643	E-822†	8200		
10 L644	E-912†	9100		
10 L645	E-103†	10000		
10 L646	E-123†	12000		
10 L647	E-153†	15000		



"DUR-MICA" SILVERED MICA CAPACITORS

Special plastic coating resists extreme humidity and moisture. Temperature range, -55°C to +150°C without rating. Compact size makes capacitors especially useful in assemblies where space and weight factors are critical. Use in delay lines, computers, test equipment and general purpose commercial-industrial equipment. Close capacitance coefficient—near NPO. Capacitance tolerance: except * = ±0.5 mm. Sizes: DM-15, $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$; DM-20, $\frac{1}{4} \times \frac{3}{8} \times \frac{1}{8}$ to $\frac{1}{2}$ deep. DM-30, $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$ to $\frac{1}{2}$ deep. are 500 WVDC, except †300 WVDC. Wt., 1 oz.

Stock No.	Type DM-15	Mfr's	Size	EACH
10 L716	010*	1		
10 L717	020*	2		
10 L718	030*	3		
10 L719	050*	5		
10 L720	100†	10		
10 L721	120†	12		
10 L722	150†	15		
10 L723	180†	18		
10 L724	200†	20		
10 L725	220†	22		
10 L726	240†	24		
10 L727	270†	27		
10 L728	300†	30		
10 L729	330†	33		
10 L730	360†	36		
10 L731	390†	39		
10 L732	430†	43		
10 L733	470†	47		
10 L734	500†	50		
10 L735	510†	51		
10 L736	560†	56		
10 L737	620†	62		
10 L738	680†	68		
10 L739	750†	75		
10 L740	820†	82		
10 L741	910†	91		
10 L742	101†	100		
10 L743	111†	110		
10 L744	121†	120		
10 L745	131†	130		
10 L746	151†	150		
10 L747	161†	160		
10 L748	181†	180		
10 L749	201†	200		
10 L750	221†	220		
10 L751	241†	240		
10 L752	251†	250		
10 L753	271†	270		
10 L754	301†	300		
10 L755	331†	330		
10 L756	361†	360		
10 L757	391†	390		
10 L758	431†	430		

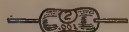
Stock No.	Type DM-15	Mfr's	Size	EACH
10 L759	471†	470		
10 L760	501†	500		
10 L761	511†	510		
10 L762	561†	560		
10 L763	621†	620		
10 L764	681†	680		
10 L765	751†	750		
10 L766	821†	820		

Stock No.	Type DM-19	Mfr's	Size	EACH
10 L769	911†	910		
10 L770	102†	100		
10 L771	112†	110		
10 L772	122†	120		
10 L773	132†	130		
10 L774	152†	150		
10 L775	162†	160		
10 L776	182†	180		
10 L777	202†	200		
10 L778	222†	220		
10 L779	242†	240		
10 L780	252†	250		
10 L781	272†	270		
10 L782	302†	300		
10 L783	332†	330		
10 L784	362†	360		
10 L785	392†	390		

Stock No.	Type DM-20	Mfr's	Size	EACH
12 L402	432†	430		
12 L403	472†	470		
12 L404	502†	500		
12 L405	512†	510		
12 L406	562†	560		
12 L407	622†	620		
10 L818	682†	680		
10 L819	752†	750		
10 L820	822†	820		
10 L821	912†	910		
10 L822	103†	100		

SPRAGUE MINIATURE AND SPECIAL-PURPOSE CAPACITORS

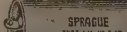
"PACER" MINIATURE CAPACITORS



3 times smaller than conventional paper-film tubulars. Non-inductive. Metal caps over foil sections. 200 WVDC. ±5% to +85°C. Derate 50% at 105°C. ±10%, 2 oz.

Stock No.	Mfr's Type	Mfd	Size	EACH
10 L334	192P6192	00047	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	33¢
10 L335	192P6192	00056	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L361	192P68192	00068	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L362	192P68192	00082	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L335	192P10292	001	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L336	192P10292	0012	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L337	192P13292	0015	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L338	192P18292	0018	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L339	192P22292	0022	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L340	192P27292	0027	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L341	192P33292	0033	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L342	192P39292	0039	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L343	192P47292	0047	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L344	192P56292	0056	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L345	192P68292	0068	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L346	192P82292	0082	$\frac{3}{16} \times \frac{1}{2} \times \frac{1}{8}$	27¢
10 L347	191P10392	01	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L348	192P12392	012	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L349	192P15392	015	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L350	192P18392	018	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L352	192P22392	022	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	30¢
10 L351	192P27392	027	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	33¢
10 L353	192P33392	033	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	33¢
10 L354	192P39392	039	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	36¢
10 L356	192P47392	047	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	39¢
10 L356	192P56392	056	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	42¢
10 L357	192P68392	068	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	45¢
10 L358	192P82392	082	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	42¢
10 L359	192P10492	1	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	45¢
10 L366	192P12492	12	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	48¢
10 L367	192P15492	15	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	48¢
10 L368	192P22492	22	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{8}$	51¢

AM MOTOR-STARTING CAPACITORS



An electrolytic capacitor designed especially for 110 volt capacitor-start AC motors. In tightly sealed aluminum cans with insulating tubes for high efficiency and dependability. Provided with lug terminals for quick, easy installation. Screws are removable for solder connections if desired. When in question as to proper size choose next larger value of capacitance. *Minimum-maximum capacitance values replaceable with these units. Av. shpg. wt., 10 oz.

Stock	Mfr's	*Mfd	Size	EACH
15 L 948	1105	43-53	1 1/2" x .76	
15 L 579	1106	47-56	1 1/2" x .76	
15 L 580	1107	53-64	1 1/2" x .76	
15 L 581	1108	64-77	1 1/2" x .76	
15 L 582	1109	72-88	1 1/2" x .83	
15 L 583	1110	88-108	1 1/2" x .78	
15 L 584	1113	108-130	1 1/2" x .86	
15 L 585	1114	124-149	1 1/2" x .89	
15 L 586	1119	130-155	1 1/2" x .89	
15 L 587	1122	145-175	1 1/2" x .96	
15 L 588	1125	161-193	1 1/2" x .98	
15 L 570	1128	189-227	1 1/2" x .98	
15 L 571	1130	200-240	1 1/2" x .98	
15 L 572	1131	216-259	1 1/2" x .98	
15 L 573	1134	233-280	1 1/2" x .98	
15 L 574	1137	243-292	1 1/2" x 1.41	
15 L 575	1140	270-324	1 1/2" x 1.43	
15 L 576	1143	324-388	1 1/2" x 1.62	
15 L 577	1146	340-408	1 1/2" x 1.62	
15 L 578	1146	378-440	1 1/2" x 1.80	
15 L 578	1149	400-480	1 3/4" x 1.82	
15 L 949	1152	430-516	1 3/4" x 2.09	
15 L 569	1155	460-552	1 3/4" x 2.25	
15 L 566	1158	540-648	1 3/4" x 2.46	
15 L 565	1161	590-708	1 3/4" x 2.65	

Twist-Prong Electrolytic Capacitors

MALLOY

TYPE FP, PFP, AND WP MALLOY CAPACITORS

SIZE CHART

Dia. x L	Code	Dia. x L	Code	Dia. x L	Code
1/4x2"	E	1x2 1/2"	J	1 1/8x3"	K
1 1/4x2"	F	1 1/2x3"	K	1 3/8x3 1/2"	L
1 1/2x2"	G	1 3/4x2 1/2"	L		
1 1/2x2"	H				

For filter circuits, audio by-pass circuits, and TV applications. Suitable for use with selenium rectifiers. Feature complete stability under high ripple current, high surge voltages and high temperatures. Units are encased in compact, rubber-sealed aluminum cases. FP types have exclusive Malloy fabricated plates (anodes specially constructed of metalized cotton gauze). *WP types have etched plate

anodes. *PFP and WP types are for printed circuits. Tolerances: 0-50 WVDC, -10% to +25.0%; 100-350 WVDC, -10% to +100%; over 350 WVDC, -10% to 50%. Rated 85°C. Can is common negative. For mounting hardware, see lower right, 6 oz.



SINGLE-SECTION TYPES

Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH
			Type	Size					Type	Size					Type	Size	
554	1000	15	038A*	B	1.53	19L 547	200	150	118A	G	1.47	19L 529	320	350	141	L	4.05
555	2000	15	041A*	B	2.07	19L 548	300	150	119A	G	1.68	19L 529	10	450	142	A	.93
556	3000	15	042A*	B	2.10	19L 540	120	200	121	G	1.41	19L 530	15	450	143A	B	1.02
663	100	25	055A*	B	.96	19L 541	160	200	122	G	1.91	19L 531	20	450	144	B	1.08
552	500	25	057A*	B	1.53	19L 546	500	200	123A*	J	2.19	19L 532	30	450	145	E	1.17
553	100	25	059A*	B	2.13	19L 538	80	300	128A	E	1.53	19L 533	40	450	146	E	1.23
554	100	25	064A*	B	.59	19L 539	100	300	129.1A	E	1.74	19L 534	80	45	148	H	1.83
549	500	50	065*	G	1.59	19L 666	200	300	132*	H	2.58	19L 535	100	450	150	J	2.07
550	1500	50	068*	J	2.31	19L 721	30	350	135A	B	1.14	19L 524	10	500	171A	B	.96
542	50	150	115A	B	.99	19L 536	50	350	137A	D	1.26	19L 525	20	500	173	D	1.11
543	100	150	116A	B	1.20	19L 537	80	350	138A	G	1.71	19L 526	30	500	175	E	1.20
544	120	150	116.5A	B	1.22	19L 537	105	350	139	H	1.37	19L 527	40	500	177	J	2.31
545	140	150	116.8A	D	1.44	19L 668	150	350	140.6A	H	2.55	19L 528	90	500	187	J	2.10
546	150	150	117A	D	1.29												

DUAL-SECTION TYPES

Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH
			Type	Size					Type	Size					Type	Size	
458	1000-1000	15	200*	G	2.64	19L 454	200-200	150	216.4A	G	2.59	19L 592	30-30	450	237	H	1.83
671	500-200	20	200.7A*	B	1.80	19L 657	20-20	250	217A	B	1.14	19L 593	40-40	450	238A	A	2.07
670	1000-1000	35	201.5*	H	3.93	19L 675	200-200	250	217.7A	J	3.60	19L 681	50-40	450	239	J	2.19
456	100-100	30	202.5A*	B	1.02	19L 657	150-150	250	217.7A	H	3.09	19L 594	50-50	450	240	J	2.31
660	20-20	150	208A	B	1.26	19L 656	40-40	300	221A	G	1.17	19L 598	60-60	450	242	K	2.30
661	30-30	150	211A	B	1.11	19L 658	40-40	250	221A	C	1.50	19L 650	80-20	450	245.2	J	2.34
662	40-20	150	210A	B	1.08	19L 653	15-15	350	222A	C	1.35	19L 682	80-30	450	245.3A	K	2.49
446	40-20	150	212A	B	1.14	19L 653	20-20	350	227A	D	1.38	19L 683	100-40	450	247	A	2.91
447	50-20	150	213A	B	1.14	19L 654	30-30	350	227.3A	E	1.74	19L 684	15-15	475	258	L	1.41
448	50-30	150	213.1A	D	1.40	19L 656	80-20	350	227.5A	J	2.82	19L 685	15-15	475	259	F	1.56
449	50-50	150	214A	E	1.56	19L 677	80-80	350	227.6A	J	2.82	19L 580	40-40	475	262	J	2.58
450	70-30	150	214.3A	D	1.46	19L 655	100-100	350	227.7A	H	3.69	19L 582	80-40	475	264.5	L	3.03
672	125-100	150	215A	G	2.04	19L 678	150-20	350	228.3	J	2.73	19L 584	80-50	475	266	L	3.12
452	200-5	150	216.1A	E	1.65	19L 679	75-75	400	229.5	L	2.91	19L 584	10-10	500	282A	D	1.17
451	80-40	150	216.2A	C	1.38	19L 680	120-40	400	229.5	B	3.15	19L 560	30-30	500	284	H	1.95
673	200-150	150	216.3A	G	2.25	19L 587	10-10	450	231	D	1.14	19L 562	40-40	500	288		2.58
674	200-200	150	216.4A	H	2.40	19L 590	20-10	450	231.3	E	1.32						
						19L 591	20-20	450	234A	E	1.53						

TRIPLE-SECTION TYPES

Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH
			Type	Size					Type	Size					Type	Size	
523	40-40-40	25	520A*	B	1.92	19L 513	40-40-20	150	311.7	G	1.74	19L 473	10-10-20	450-450-25	345.2	D	1.44
520	70-30-100	150	302.3A	E	1.67	19L 514	120-120-40	150	311.9A	G	2.43	19L 474	20-20-20	450-450-25	345.8	J	1.83
521	80-60-250	150-150-10	302.5A	F	2.04	19L 507	40-40-40	300-150-150	326.3A	G	1.74	19L 475	40-40-20	450-450-25	346	J	2.37
522	80-40-40	150-150-10	302.7A	F	2.04	19L 506	100-100-30	300-150-150	326.3A	G	1.55	19L 476	20-10-50	450-450-50	368A	J	1.31
515	40-20-100	150-150-25	307A	B	1.50	19L 503	150-100-30	300	326.77	A	3.89	19L 471	40-40-100	450-450-200	375	L	2.97
516	40-20-20	150-150-25	310A	B	1.44	19L 502	30-30-20	350-300-25	331A	E	1.85	19L 461	10-10-10	450	375.8	E	1.56
517	40-20-20	150-150-25	314A	D	1.68	19L 490	15-10-20	350-350-25	328A	C	1.50	19L 462	15-15-10	450	376.1	F	1.77
518	50-30-100	150-150-25	309A	C	1.62	19L 501	20-20-20	350-350-25	329.5	D	1.68	19L 463	20-10-10	450	376.3	J	1.74
519	50-50-20	150-150-25	311A	C	1.38	19L 488	20-10-10	350-350-250	341A	C	1.53	19L 464	20-20-20	450	376.5	J	2.49
509	20-20-20	150	311.2A	B	1.38	19L 486	10-10-10	350	330.5A	C	1.44	19L 468	40-40-10	450	376.8	J	2.49
510	40-20-20	150	311.4A	B	1.44	19L 487	30-30-30	350	330.7A	E	1.95	19L 469	40-40-40	450	377.1	K	3.12
511	40-40-30	150	311.5A	C	1.56	19L 477	100-10-80	400-400-350	333.85	L	3.66	19L 470	80-40-20	450	378	J	3.24
512	50-40-40	150	311.6A	E	1.67	19L 504	100-80-20	300-250-350	333	H	2.40	19L 459	30-30-20	475	396	J	2.67
685	50-50-50	150	311.65A	D	1.80	19L 476	40-90-50	450-150-150	341A	H	2.40	19L 460	40-10-10	475	396.2	H	2.31

FOUR-SECTION TYPES

Stock No.	Mfd	WV DC	FP, WP*		EACH	Stock No.	Mfd	WV DC	FP, WP*		EACH
			Type	Size					Type	Size	
L 439	60-40-20-200	150-150-150-10	408	G	2.07	19L 427	40-40-40-40	450-450-450-25	430.6A	G	3.30
L 437	40-40-30-20	150-150-150-25	409	G	1.86	19L 419	5-5-5-5	450	433.6A	G	1.80
L 438	80-40-30-40	150-150-150-25	411A	G	2.17	19L 420	10-10-10-10	450	434	G	2.01
L 436	100-80-100	150	412A	G	2.73	19L 421	20-10-10-10	450	434.5	G	2.22
L 429	40-40-40-20	450-300-300-150	413X	J	2.94	19L 422	20-20-20-20	450	444	J	2.82
L 708	100-100-20-30	300-300-150-150	419.4A	J	3.54	19L 423	30-20-20-20	450	444.8	J	3.12
L 433	60-100-60-40	350-350-200-75	419.6A	K	3.93	19L 424	35-35-10-10	450	445	J	2.76
L 432	40-40-60-20	350-350-200-150	419.6A	H	2.17	19L 425	40-40-20-20	450	447A	K	2.76
L 431	40-80-100-25	400-350-200-50	419.3A	H	2.79	19L 416	20-20-10-10	475	474.5	H	2.61
L 428	20-15-20-20	450-450-25-25	420.45A	K	3.63	19L 417	20-20-20-20	475	475	J	3.12
L 426	40-30-10-20	450-450-450-25	426	G	2.07	19L 418	20-20-10-10	475	476	J	3.06
			429	J	2.70	19L 423	40-40-8-8	500	495A	K	3.42

CAPACITOR HARDWARE

Assortment of the most commonly used mounting hardware for electrolytic capacitors. Constructed of the best materials to ensure rigid, highly dependable mounting. Designed to simplify in-

Stock No.	Mfr's Type	Fig.	Size	3 FOR	Stock No.	Mfr's Type	Fig.	Size	EACH
17 L 486	MP-2	A*	1 3/4"	9¢	17 L 531	PS-4	C	1"	42¢
17 L 488	MP-4	A*	1 3/4"		17 L 532	PS-6	C	1 1/4"	54¢
17 L 489	MP-6	A*	1 3/4"		17 L 402	VR-1	D	1 to 1 1/4"	9¢
17 L 490	BP-2	A†	3/4"		17 L 413	VR-3	D	1 3/4 to 1 7/8"	9¢
17 L 492	BP-4	A†	1 1/4"		17 L 414	VR-4	D	1 1/2 to 1 3/8"	12¢
17 L 493	BP-6	A†	1 3/4"	9¢	17 L 415	VR-6	D	1 3/4 to 1 13/16"	13¢
17 L 494	TH-13	B	3/8"		17 L 416	VR-8	D	2 to 2 1/4"	17¢
17 L 496	TH-15	B	1/2 to 3/8"		17 L 420	VR-10	D	2 1/2 to 3"	20¢
17 L 497	TH-17	B	3/8 to 1 1/8"		17 L 421	VR-12	D	3"	48¢
17 L 498	TH-19	B	1/2 to 1 1/8"						
17 L 499	TH-21	B	3/8 to 1 1/8"	18¢					
17 L 412	TH-15	B	1 3/8 to 1 1/8"						

Centralab Ceramic Capacitors and Trimmers

SERIES DD DISC CERAMICS



An extensive selection of Series DD ceramic capacitors in a wide variety of values and working voltages to suit practically any need. Engineered for circuitry requiring high capacity, low inductance and reliable performance. Small in size and ruggedly constructed, these ceramic capacitors are used extensively in compact radio and television assemblies as well as in high fidelity equipment of all types. These disc ceramic capacitors offer higher dielectric constants, greater breakdown voltages and higher capacities in less space than similarly rated paper or mica capacitors. Leads are No. 22 tinned copper. Tolerances are $\pm 20\%$ except $\pm 10\%$, and guaranteed minimum value. Made to withstand extreme temperature, humidity and vibration. Av. shpg. wt., 2 oz.

DD 1000 VOLTS					
Stock No.	Mfr's Type	Mmf	Stock No.	Mfr's Type	Mmf
11 L 407	0503	5	11 L 427	271*	370
11 L 520	060*	6	11 L 428	301*	300
11 L 408	08R*	8	11 L 429	331*	330
11 L 409	100*	10	11 L 430	391*	390
11 L 410	150*	15	11 L 431	471*	470
11 L 411	200*	20	11 L 432	501*	500
11 L 525	220*	22	11 L 433	561*	560
11 L 412	250*	25	11 L 434	681*	680
11 L 527	270*	27	11 L 435	751*	750
11 L 413	330*	33	11 L 436	821*	820
11 L 415	470*	47	11 L 437	102*	1000
11 L 416	500*	50	11 L 707	102G*	1000
11 L 417	560*	56	11 L 438	152G*	1500
11 L 418	680*	68	11 L 439	202*	2000
11 L 419	750*	75	11 L 440	222*	2200
11 L 420	101*	100	11 L 440	302*	3000
11 L 421	121*	120	11 L 600	332*	3300
11 L 531	131*	130	11 L 602	402*	4000
11 L 422	151*	150	11 L 441	472*	4700
11 L 423	181*	180	11 L 037	502*	5000
11 L 424	201*	200	11 L 604	682*	6800
11 L 425	221*	220	11 L 442	502*	5000
11 L 426	251*	250	11 L 106	1032*	10,000

TWO FOR (All except Type 1032) ... 30¢
Type 1032, TWO FOR ... 48¢

DD16—1600 VOLTS AND DD30—3000 VOLTS					
Stock No.	Mfr's Type	Mfd	WV DC	EACH	
11 L 371	502*	.005	1600	27¢	
11 L 375	103*	.01	1600	27¢	
11 L 614	101	.0001	3000	24¢	
11 L 621	501	.0005	3000	24¢	
11 L 622	102	.001	3000	30¢	
11 L 626	502	.005	3000	30¢	

DD60 6000 VOLTS					
Stock No.	Type	Mmf	Stock No.	Type	Mmf
11 L 680	100	10	11 L 475	151	150
11 L 466	300	39	11 L 476	181	180
11 L 468	500	50	11 L 682	91	390
11 L 470	680	68	11 L 485	471	470
11 L 472	820	82	11 L 486	501	500
11 L 473	101	100	11 L 683	751	750

EACH ... 36¢

Stock No.	Type	Mmf	Stock No.	Type	Mmf
11 L 445	102	1000	11 L 448	202	2000
11 L 447	152	1500			

EACH ... 60¢

DDK-200 CERAMIC CAPACITOR KIT



Ceramic disc capacitors; primarily intended for by-pass and coupling or filter service. Consists of 200 Type DD disc ceramics. All 1000 WVDC unless otherwise specified. 5 each: 10, 25, 33, 47, 50, 68, 120, 150, 180, 220, 250, 270, 300, 330, 390, 470, 500, 680, 1500, 3000, 4700, 10,000 (600 v.) mfm. 10 each—100, 200 mfm. 15 of each—1000, 5000, 20,000 (600 v.) mfm. 20 of each—10,000 mfm. Cabinet size, 4x6x11". Shpg. wt., 6 lbs. 34.10

TYPE D6 BC TUBULAR "HI-KAPS"



Compact, moisture-proof ceramics for use in bypass and coupling or filter applications. Rated at 600 working volts DC, $\pm 10\%$ tolerance, except $\pm 20\%$. In standard sizes. Av. shpg. wt., 2 oz.

Stock No.	Type	Mmf	Stock No.	Type	Mmf
11 L 545	030	3	11 L 569	221	220
11 L 546	050	5	11 L 570	271	270
11 L 547	100	10	11 L 572	301	300
11 L 548	150	15	11 L 573	331	330
11 L 551	200	20	11 L 576	471	470
11 L 552	220	22	11 L 577	501	500
11 L 553	330	33	11 L 582	821	820
11 L 556	390	39	11 L 583	102	1000
11 L 557	470	47	11 L 585	152	1500
11 L 558	500	50	11 L 586	182	1800
11 L 560	680	68	11 L 587	202	2000
11 L 561	750	75	11 L 588	332	3300
11 L 564	101	100	11 L 595	502	5000
11 L 566	151	150	11 L 599	103	10,000
11 L 567	181	180			

TWO FOR ... 30¢



PACKAGED ELECTRONIC CIRCUITS (PEC)

Complete, printed electronic circuits—with resistors, capacitors, and inductors—for the replacement of entire printed circuit sections in radio and TV sets. The printed circuit wiring and all components are bound to ceramic base and sealed against moisture, temperature and physical shock. Excellent for use by experimenters and those engaged in new design. Only durable quality components are used. Av. shpg. wt., 2 oz.

Stock No.	Type	Description	EA.	Stock No.	Type	Description	EA.
11 L 150	PC-70	Triode Coupler		11 L 170	PC-151	Audio/Det Coupler	
11 L 151	PC-71	Triode Coupler		11 L 160	PC-157	Audio/Det Coupler	
11 L 152	PC-81	Triode Coupler	1.80	11 L 162	PC-161	Audio/Det Coupler	
11 L 153	PC-81	Triode Coupler		11 L 171	PC-160	Pentode/Det Coupler	
11 L 165	PC-84	Triode Coupler		11 L 372	PC-165	Pentode/Det Coupler	1.80
11 L 154	PC-90	Pentode Coupler		11 L 349	PC-190	Compensator Coupler	
11 L 155	PC-91	Pentode Coupler		11 L 368	PC-260	Sync Takeoff Coupler	
11 L 166	PC-92	Pentode Coupler	1.80	11 L 369	PC-262	Sync Takeoff Coupler	
11 L 156	PC-100	Vertical Integrator		11 L 380	PC-263	Sync Takeoff Coupler	
11 L 157	PC-101	Vertical Integrator		11 L 361	PC-314	Retrace Suppression	
11 L 158	PC-104	Vertical Integrator		11 L 908	PC-327	Pentode/Det Coupler	
11 L 159	PC-105	Vertical Integrator	1.80	11 L 352	PC-331	Audio/Det Coupler	
11 L 158	PC-106	Vertical Integrator		11 L 355	PC-378	Tone Control Network	
11 L 158	PC-150	Audio/Det Coupler		11 L 363	PC-387	I.F. Decoupling Network	

CERAMIC-DIELECTRIC TRIMMERS



Compact, stable trimmer capacitors with ceramic dielectric. Light weight, easily mounted. Servo driver adjustment. Provides smooth, linear rate of change. Full capacity range with full rotation. Balanced rotor. Heavy spring pressure for excellent mechanical stability. Operates under conditions of heavy vibration. Silver plated stator and rotor, which make contact flat optically ground surface to eliminate space. All types rated at 500 WVDC. Power factor: less than $\pm 0.2\%$ at 1 mc. Types 822 and 823 constructed with styrene-butyl phenolic base, 829 are tubular ceramic (y mounting screw and nut). Letter N in type No. indicates negative temperature coefficient. Dimension given is in inches. Av. shpg. wt., 1 oz.

TYPES 820 AND 822

Stock No.	Mfr's Type	Mmf Range	Base Size	EA.
11 L 383	820-B	5-20	3/8x2 1/2"	
11 L 384	820-C	3-35	3/8x2 1/2"	
11 L 651	822-EN	4-30	2 1/2x3 1/4"	
11 L 125	822-CN	4.5-25	2 1/2x3 1/4"	
11 L 124	822-BN	7-45	2 1/2x3 1/4"	
11 L 123	822-AN	8-50		
11 L 652	822-EZ	5-7	2 1/2x3 1/4"	
11 L 288	822-BZ	2.5-13	2 1/2x3 1/4"	
11 L 654	822-FZ	3-12		
11 L 127	822-AZ	4.5-25		

TYPES 823, 827 AND 829

Stock No.	Mfr's Type	Mmf Range	Base Size	EA.
11 L 510	823-AN	20-125	1 1/4x1 1/2"	
11 L 512	823-AZ	12-62	1 1/4x1 1/2"	
11 L 517	827-B	3.5-12	1 1/2x3 1/4"	
11 L 518	827-C	6-30	1 1/2x3 1/4"	
11 L 519	827-D	7-35	1 1/2x3 1/4"	
11 L 400	829-3	5-3	1 1/2x3 1/4"	
11 L 402	829-6	1-6	1 1/2x3 1/4"	
11 L 404	829-10	1.5-10	1 1/2x3 1/4"	

FEED-THRU HI-KAPS

Tiny ceramics for single hole mounting. Specifically designed for use in high frequency circuit. Rated 500 WVDC. Type FT has 12-28 mounting holes. 0.050" dia. thinned lead per leads with hooked end. MFT has 1/4" dia. hole for solder to chassis (has 16 leads). Tolerances: $\pm 10\%$; $\pm 10\%$; TGMV (guaranteed minimum value). Av. shpg. wt., 2 oz.

MFT FT

TYPE FT

Stock No.	Type	Mmf	EA.
11 L 390	FT-500	\$ 500	
11 L 391	FT-1000	\$1000	
11 L 392	FT-1500	\$1500	
11 L 394	FT-2300	\$2300	

TYPE MFT MINIATURES

Stock No.	Type	Mmf	EA.
11 L 488	MFT-50	\$ 50	
11 L 489	MFT-100	\$ 100	
11 L 490	MFT-500	\$ 500	
11 L 491	MFT-1000	\$1000	

850 TRANSMITTING CAPACITORS

Ideal for RF power circuit. Silver electrodes fired to ceramic. $\pm 2\%$ temp. co. Based on 30° temp. rise. 850 types are $\pm 10\%$ tolerance. 858, $\pm 1\%$. Hex slot 1/8" long, 6.32 thread. 2.

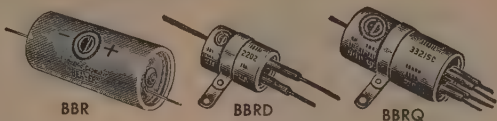


Stock No.	Mfr's Type	Mmf	WVDC	\$RF Load	EA.
11 L 100	850S-252*	25	7500	7 amps	
11 L 101	850S-502*	50	7500	10 amps	
11 L 104	850S-100	100	5000	9.8 amps	
11 L 107	858S-500	500	5000		
11 L 108	858S-1000	1000	5000		

Cornell-Dubilier Electrolytic Capacitors

"BLUE BEAVER" TUBULAR ELECTROLYTICS

lar electrolytic capacitors specifically designed for service re-
tent applications. Especially popular for cramped space installa-
in TV receivers, hearing aids, miniature radios and other small
blies. All are hermetically sealed in aluminum cans for protec-
against heat and humidity, and have cardboard outer sleeves. All
a common negative terminal which is grounded to the can. Rated
eration up to +85° C. except 500 volt types which are rated for
eratures up to +65° C. Av. shgpt. 5wt. type, 4 oz.



BR/BBR SINGLE SECTION

No.	Type	Mfd	W.V.	Size In.	E.A.
203	25-6	25	6	3/8x1 1/8	.51
204	50-6	50	6	3/8x1 1/8	.57
205	100-6	100	6	3/8x1 1/8	.72
206	250-6	250	6	3/8x1 1/8	.81
285	500-6	500	6	1 1/8x1 1/8	.93
286	1000-6	1000	6	3/8x1 1/8	1.14
287	2000-6	2000	6	3/8x1 1/8	1.38
272	250-15	250	15	3/8x1 1/8	.93
273	500-15	500	15	3/8x1 1/8	1.05
274	1000-15	1000	15	3/8x1 1/8	1.14
284	2000-15	2000	15	3/8x1 1/8	1.38
207	100-15	100	15	3/8x1 1/8	.75
208	250-15	250	15	3/8x1 1/8	.60
219	50-25	25	25	3/8x1 1/8	.60
218	25-25	25	25	3/8x1 1/8	.66
209	100-25	100	25	3/8x1 1/8	.81
210	250-25	250	25	3/8x1 1/8	1.02
211	500-25	500	25	3/8x1 1/8	1.38
209	1-50	1	50	3/8x1 1/8	.54
210	2-50	2	50	3/8x1 1/8	.60
211	4-50	4	50	3/8x1 1/8	.60
222	5-50	5	50	3/8x1 1/8	.60
223	10-50	10	50	3/8x1 1/8	.60
224	25-50	25	50	3/8x1 1/8	.63
148	100-50	100	50	3/8x1 1/8	.93
149	250-50	250	50	3/8x1 1/8	1.05
269	500-50	500	50	3/8x1 1/8	1.44
214	4-150	4	150	3/8x1 1/8	.60
226	10-150	10	150	3/8x1 1/8	.63
247	12-150	12	150	3/8x1 1/8	.66
248	16-150	16	150	3/8x1 1/8	.69
225	20-150	20	150	3/8x1 1/8	.72
445	25-150	25	150	3/8x1 1/8	.75
446	30-150	30	150	3/8x1 1/8	.78
447	40-150	40	150	3/8x1 1/8	.81
448	50-150	50	150	3/8x1 1/8	.84
146	60-150	60	150	3/8x1 1/8	.96
147	80-150	80	150	3/8x1 1/8	.96
148	100-150	100	150	3/8x1 1/8	1.05
149	150-150	150	150	3/8x1 1/8	1.14
542	200-150	200	150	3/8x1 1/8	1.32
543	300-150	300	150	3/8x1 1/8	1.53
227	4-250	4	250	3/8x1 1/8	.60

BR/BBR SINGLE SECTION (Cont'd)

Stock No.	Type	Mfd	W.V.	Size in.	E.A.
19 L 228	8-250	8	250	3/8x1 1/8	.69
19 L 229	12-250	12	250	3/8x1 1/8	.75
19 L 230	16-250	16	250	3/8x1 1/8	.78
19 L 231	20-250	20	250	3/8x1 1/8	.81
19 L 232	30-250	30	250	3/8x1 1/8	.87
19 L 233	40-250	40	250	3/8x2	.93
19 L 234	50-250	50	250	3/8x1 1/8	1.02
19 L 235	60-250	60	250	1x1 1/8	1.08
19 L 236	80-250	80	350	3/8x1 1/8	.53
19 L 237	100-250	100	4	3/8x1 1/8	.58
19 L 238	120-250	120	4	3/8x1 1/8	.63
19 L 239	140-250	140	4	3/8x1 1/8	.68
19 L 240	160-250	160	4	3/8x1 1/8	.73
19 L 241	180-250	180	4	3/8x1 1/8	.78
19 L 242	200-250	200	4	3/8x1 1/8	.83
19 L 243	220-250	220	4	3/8x1 1/8	.87
19 L 244	240-250	240	4	3/8x1 1/8	.91
19 L 245	260-250	260	4	3/8x1 1/8	.96
19 L 246	280-250	280	4	3/8x1 1/8	1.01
19 L 247	300-250	300	4	3/8x1 1/8	1.06
19 L 248	320-250	320	4	3/8x1 1/8	1.11
19 L 249	340-250	340	4	3/8x1 1/8	1.16
19 L 250	360-250	360	4	3/8x1 1/8	1.21
19 L 251	380-250	380	4	3/8x1 1/8	1.26
19 L 252	400-250	400	4	3/8x1 1/8	1.31
19 L 253	420-250	420	4	3/8x1 1/8	1.36
19 L 254	440-250	440	4	3/8x1 1/8	1.41
19 L 255	460-250	460	4	3/8x1 1/8	1.46
19 L 256	480-250	480	4	3/8x1 1/8	1.51
19 L 257	500-250	500	4	3/8x1 1/8	1.56
19 L 258	520-250	520	4	3/8x1 1/8	1.61
19 L 259	540-250	540	4	3/8x1 1/8	1.66
19 L 260	560-250	560	4	3/8x1 1/8	1.71
19 L 261	580-250	580	4	3/8x1 1/8	1.76
19 L 262	600-250	600	4	3/8x1 1/8	1.81
19 L 263	620-250	620	4	3/8x1 1/8	1.86
19 L 264	640-250	640	4	3/8x1 1/8	1.91
19 L 265	660-250	660	4	3/8x1 1/8	1.96
19 L 266	680-250	680	4	3/8x1 1/8	2.01
19 L 267	700-250	700	4	3/8x1 1/8	2.06
19 L 268	720-250	720	4	3/8x1 1/8	2.11
19 L 269	740-250	740	4	3/8x1 1/8	2.16
19 L 270	760-250	760	4	3/8x1 1/8	2.21
19 L 271	780-250	780	4	3/8x1 1/8	2.26
19 L 272	800-250	800	4	3/8x1 1/8	2.31
19 L 273	820-250	820	4	3/8x1 1/8	2.36
19 L 274	840-250	840	4	3/8x1 1/8	2.41
19 L 275	860-250	860	4	3/8x1 1/8	2.46
19 L 276	880-250	880	4	3/8x1 1/8	2.51
19 L 277	900-250	900	4	3/8x1 1/8	2.56
19 L 278	920-250	920	4	3/8x1 1/8	2.61
19 L 279	940-250	940	4	3/8x1 1/8	2.66
19 L 280	960-250	960	4	3/8x1 1/8	2.71
19 L 281	980-250	980	4	3/8x1 1/8	2.76
19 L 282	1000-250	1000	4	3/8x1 1/8	2.81
19 L 283	1020-250	1020	4	3/8x1 1/8	2.86
19 L 284	1040-250	1040	4	3/8x1 1/8	2.91
19 L 285	1060-250	1060	4	3/8x1 1/8	2.96
19 L 286	1080-250	1080	4	3/8x1 1/8	3.01
19 L 287	1100-250	1100	4	3/8x1 1/8	3.06
19 L 288	1120-250	1120	4	3/8x1 1/8	3.11
19 L 289	1140-250	1140	4	3/8x1 1/8	3.16
19 L 290	1160-250	1160	4	3/8x1 1/8	3.21
19 L 291	1180-250	1180	4	3/8x1 1/8	3.26
19 L 292	1200-250	1200	4	3/8x1 1/8	3.31
19 L 293	1220-250	1220	4	3/8x1 1/8	3.36
19 L 294	1240-250	1240	4	3/8x1 1/8	3.41
19 L 295	1260-250	1260	4	3/8x1 1/8	3.46
19 L 296	1280-250	1280	4	3/8x1 1/8	3.51
19 L 297	1300-250	1300	4	3/8x1 1/8	3.56
19 L 298	1320-250	1320	4	3/8x1 1/8	3.61
19 L 299	1340-250	1340	4	3/8x1 1/8	3.66
19 L 300	1360-250	1360	4	3/8x1 1/8	3.71
19 L 301	1380-250	1380	4	3/8x1 1/8	3.76
19 L 302	1400-250	1400	4	3/8x1 1/8	3.81
19 L 303	1420-250	1420	4	3/8x1 1/8	3.86
19 L 304	1440-250	1440	4	3/8x1 1/8	3.91
19 L 305	1460-250	1460	4	3/8x1 1/8	3.96
19 L 306	1480-250	1480	4	3/8x1 1/8	4.01
19 L 307	1500-250	1500	4	3/8x1 1/8	4.06
19 L 308	1520-250	1520	4	3/8x1 1/8	4.11
19 L 309	1540-250	1540	4	3/8x1 1/8	4.16
19 L 310	1560-250	1560	4	3/8x1 1/8	4.21
19 L 311	1580-250	1580	4	3/8x1 1/8	4.26
19 L 312	1600-250	1600	4	3/8x1 1/8	4.31
19 L 313	1620-250	1620	4	3/8x1 1/8	4.36
19 L 314	1640-250	1640	4	3/8x1 1/8	4.41
19 L 315	1660-250	1660	4	3/8x1 1/8	4.46
19 L 316	1680-250	1680	4	3/8x1 1/8	4.51
19 L 317	1700-250	1700	4	3/8x1 1/8	4.56
19 L 318	1720-250	1720	4	3/8x1 1/8	4.61
19 L 319	1740-250	1740	4	3/8x1 1/8	4.66
19 L 320	1760-250	1760	4	3/8x1 1/8	4.71
19 L 321	1780-250	1780	4	3/8x1 1/8	4.76
19 L 322	1800-250	1800	4	3/8x1 1/8	4.81
19 L 323	1820-250	1820	4	3/8x1 1/8	4.86
19 L 324	1840-250	1840	4	3/8x1 1/8	4.91
19 L 325	1860-250	1860	4	3/8x1 1/8	4.96
19 L 326	1880-250	1880	4	3/8x1 1/8	5.01
19 L 327	1900-250	1900	4	3/8x1 1/8	5.06
19 L 328	1920-250	1920	4	3/8x1 1/8	5.11
19 L 329	1940-250	1940	4	3/8x1 1/8	5.16
19 L 330	1960-250	1960	4	3/8x1 1/8	5.21
19 L 331	1980-250	1980	4	3/8x1 1/8	5.26
19 L 332	2000-250	2000	4	3/8x1 1/8	5.31
19 L 333	2020-250	2020	4	3/8x1 1/8	5.36
19 L 334	2040-250	2040	4	3/8x1 1/8	5.41
19 L 335	2060-250	2060	4	3/8x1 1/8	5.46
19 L 336	2080-250	2080	4	3/8x1 1/8	5.51
19 L 337	2100-250	2100	4	3/8x1 1/8	5.56
19 L 338	2120-250	2120	4	3/8x1 1/8	5.61
19 L 339	2140-250	2140	4	3/8x1 1/8	5.66
19 L 340	2160-250	2160	4	3/8x1 1/8	5.71
19 L 341	2180-250	2180	4	3/8x1 1/8	5.76
19 L 342	2200-250	2200	4	3/8x1 1/8	5.81
19 L 343	2220-250	2220	4	3/8x1 1/8	5.86
19 L 344	2240-250	2240	4	3/8x1 1/8	5.91
19 L 345	2260-250	2260	4	3/8x1 1/8	5.96
19 L 346	2280-250	2280	4	3/8x1 1/8	6.01
19 L 347	2300-250	2300	4	3/8x1 1/8	6.06
19 L 348	2320-250	2320	4	3/8x1 1/8	6.11
19 L 349	2340-250	2340	4	3/8x1 1/8	6.16
19 L 350	2360-250	2360	4	3/8x1 1/8	6.21
19 L 351	2380-250	2380	4	3/8x1 1/8	6.26
19 L 352	2400-250	2400	4	3/8x1 1/8	6.31
19 L 353	2420-250	2420	4	3/8x1 1/8	6.36
19 L 354	2440-250	2440	4	3/8x1 1/8	6.41
19 L 355	2460-250	2460	4	3/8x1 1/8	6.46
19 L 356	2480-250	2480	4	3/8x1 1/8	6.51
19 L 357	2500-250	2500	4	3/8x1 1/8	6.56
19 L 358	2520-250	2520	4	3/8x1 1/8	6.61
19 L 359	2540-250	2540	4	3/8x1 1/8	6.66
19 L 360	2560-250	2560	4	3/8x1 1/8	6.71
19 L 361	2580-250	2580	4	3/8x1 1/8	6.76
19 L 362	2600-250	2600	4	3/8x1 1/8	6.81
19 L 363	2620-250	2620	4	3/8x1 1/8	6.86
19 L 364	2640-250	2640	4	3/8x1 1/8	6.91
19 L 365	2660-250	2660	4	3/8x1 1/8	6.96
19 L 366	2680-250	2680	4	3/8x1 1/8	7.01
19 L 367	2700-250	2700	4	3/8x1 1/8	7.06
19 L 368	2720-250	2720	4	3/8x1 1/8	7.11
19 L 369	2740-250	2740	4	3/8x1 1/8	7.16
19 L 370	2760-250	2760	4	3/8x1 1/8	7.21
19 L 371	2780-250	2780	4	3/8x1 1/8	7.26
19 L 372	2800-250	2800	4	3/8x1 1/8	7.31
19 L 373	2820-250	2820	4	3/8x1 1/8	7.36
19 L 374	2840-250	2840	4	3/8x1 1/8	7.41
19 L 375	2860-250	2860	4	3/8x1 1/8	7.46
19 L 376	2880-250	2880	4	3/8x1 1/8	7.51
19 L 377	2900-250	2900	4	3/8x1 1/8	7.56
19 L 378	2920-250	2920	4	3/8x1 1/8	7.61
19 L 379	2940-250	2940	4	3/8x1 1/8	7.66
19 L 380	2960-250	2960	4	3/8x1 1/8	7.71
19 L 381	2980-250	2980	4	3/8x1 1/8	7.76
19 L 382	3000-250	3000	4	3/8x1 1/8	7.81
19 L 383	3020-250	3020	4	3/8x1 1/8	7.86
19 L 384	3040-250	3040	4	3/8x1 1/8	7.91
19 L 385	3060-250	3060	4	3/8x1 1/8	7.96
19 L 386	3080-250	3080	4	3/8x1 1/8	8.01
19 L 387	3100-250	3100	4	3/8x1 1/8	8.06
19 L 388	3120-250	3120	4	3/8x1 1/8	8.11
19 L 389	3140-250	3140	4	3/8x1 1/8	8.16
19 L 390	3160-250	3160	4	3/8x1 1/8	8.21
19 L 391	3180-250	3180	4	3/8x1 1/8	8.26
19 L 392	3200-250	3200	4	3/8x1 1/8	8.31
19 L 393	3220-250	3220	4	3/8x1 1/8	8.36
19 L 394	3240-250	3240	4	3/8x1 1/8	8.41
19 L 395	3260-250	3260	4	3/8x1 1/8	8.46
19 L 396	3280-250	3280	4	3/8x1 1/8	8.51
19 L 397	3300-250	3300	4	3/8x1 1/8	8.56
19 L 398	3320-250	3320	4	3/8x1 1/8	8.61
19 L 399	3340-250	3340	4	3/8x1 1/8	8.66
19 L 400	3360-250	3360	4	3/8x1 1/8	8.71
19 L 401	3380-250	3380	4	3/8x1 1/8	8.76
19 L 402	3400-250	3400	4	3/8x1 1/8	8.81
19 L 403	3420-250	3420	4	3/8x1 1/8	8.86
19 L 404	3440-250	3440	4	3/8x1 1/8	8.91
19 L 405	3460-250	3460	4	3/8x1 1/8	8.96
19 L 406	3480-250	3480	4	3/8x1 1/8	9.01
19 L 407	3500-250	3500	4	3/8x1 1/8	9.06
19 L 408	3520-250	3520	4	3/8x1 1/8	9.11
19 L 409	3540-250	3540	4	3/8x1 1/8	9.16
19 L 410	3560-250	3560	4	3/8x1 1/8	9.21
19 L 411	3580-250	3580	4	3/8x1 1/8	9.26
19 L 412	3600-250	3600	4	3/8x1 1/8	9.31
19 L 413	3620-250	3620	4	3/8x1 1/8	9.36
19 L 414	3640-250				

Cornell-Dubilier Popular Capacitors

WMF "MYLAR" FILM-ENCASED TUBULAR CAPACITORS



Ultra-compact Mylar dielectric tubular capacitor encased in a thin, tough Mylar film wrapping, and sealed with a high-density thermosetting plastic. Combine small size with

exceptional strength and durability; excellent stability with wide temperature range and long life. Feature high insulation resistance and low power factor—ideal for applications where dependability and reliability is a must, and a metal-cased unit is not required. Operates over a temperature range of -55°C to $+125^{\circ}\text{C}$. Derate voltage 10% at 100°C ; 50% at 125°C ; full voltage rating up to 85°C . Tolerance of $\pm 10\%$. Av. shpg. wt., 2 oz.

100 WVDC

Stock No.	Mfd	Size	EACH
16 L 975	.001		
16 L 976	.0015		
16 L 977	.0022		
16 L 978	.0033		
16 L 979	.0047		
16 L 980	.0068		
16 L 981	.01		
16 L 982	.015		
16 L 983	.022		
16 L 984	.033		
16 L 985	.047		
16 L 986	.068		
16 L 987	.1		
16 L 988	.15		
16 L 989	.22		
16 L 990	.33		
16 L 991	.47		
16 L 992	.68		
16 L 993	1.0		

200 WVDC

Stock No.	Mfd	Size	EACH
16 L 877	.001		
16 L 878	.0015		
16 L 879	.0022		
16 L 880	.0033		
16 L 881	.0047		
16 L 882	.0068		
16 L 883	.01		
16 L 884	.015		
16 L 885	.022		
16 L 886	.033		
16 L 887	.047		
16 L 888	.068		
16 L 889	.1		
16 L 890	.15		
16 L 891	.22		
16 L 892	.33		

200 WVDC (Con'l)

Stk. No.	Mfd	Size	EACH
16 L 893	.47		
16 L 894	.68		
16 L 895	1.0		
16 L 896	1.5		
16 L 898	2.0		

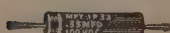
400 WVDC

Stk. No.	Mfd	Size	EACH
16 L 832	.01		
16 L 833	.015		
16 L 834	.022		
16 L 835	.033		
16 L 836	.047		
16 L 837	.068		
16 L 838	.1		
16 L 839	.15		
16 L 840	.22		
16 L 841	.33		
16 L 842	.47		
16 L 843	.68		
16 L 844	1.0		
16 L 846	1.5		
16 L 847	2.0		

600 WVDC

Stk. No.	Mfd	Size	EACH
12 L 715	.01		
12 L 716	.015		
12 L 717	.022		
12 L 718	.033		
12 L 719	.047		
12 L 720	.068		
12 L 721	.1		
12 L 722	.15		
12 L 723	.22		
12 L 724	.33		
12 L 725	.47		
12 L 726	.68		
12 L 727	1.0		

MPY "SUPER-PUP" METALIZED PAPER CAPACITORS



Lightweight, space-saving units for high-grade electronic equipment. Feature superior moisture resistance, wax-clad Triclad case, wide temperature range, high insulation resistance, no derating, and self-healing properties of metalized dielectric capacitors. Resin impregnated Triclad tube with resin end-fill is wax-free for clean handling; moistureproof, and unaffected when touched by hot irons. Operate over range of -55°C to 125°C . Tolerance, $\pm 20\%$, 2 oz.

200 WVDC

Stock No.	Mfr's Type	Mfd	EACH
14 L 470	MPV2S22	.022	.45
14 L 402	MPV2S47	.047	.45
14 L 485	MPV2P1	.1	.48
14 L 486	MPV2P22	.22	.63
14 L 403	MPV2P47	.47	.75
14 L 488	MPV2W1	1.0	1.08
14 L 404	MPV2W2	2.0	1.47

400 WVDC

Stock No.	Mfr's Type	Mfd	EACH
14 L 474	MPV4S22	.022	.45
14 L 405	MPV4S47	.047	.48
14 L 491	MPV4P1	.1	.57
14 L 492	MPV4P22	.22	.72
14 L 406	MPV4P47	.47	.96
14 L 494	MPV4W1	1.0	1.32
14 L 407	MPV4W2	2.0	1.74

600 WVDC

Stock No.	Mfr's Type	Mfd	EACH
14 L 495	MPV6S1	.01	.45
14 L 478	MPV6S2	.022	.48
14 L 408	MPV6S47	.047	.54
14 L 496	MPV6P1	.1	.60
14 L 497	MPV6P22	.22	.81
14 L 409	MPV6P47	.47	1.14
14 L 499	MPV6W1	1.0	1.44
14 L 410	MPV6W2	2.0	2.10

Make Allied headquarters for all of your electronic needs. Take advantage of our skilled, efficient order-handling personnel and unsurpassed facilities. You can depend on Allied for prompt service.

TJU—TJL HERMETICALLY SEALED TRANSMITTING CAPACITORS

For dependable power supply filter applications in laboratory and transmitting equipment. Hermetically sealed cases; impervious to heat. *Type TJL, all others are TJU with universal mtg. strap. Type TJL has standard wiring brackets with mtg. holes. Temperature range: -55°C to 85°C . Tolerance, $\pm 10\%$. Wt., 5 oz.

Stock No.	Mfd	WVDC	Size	EACH
13 L 710	.5	600	2 1/2x1 1/2x1 1/2	2.56
13 L 706	.5	600	2 1/2x1 1/2x1 1/2	2.73
13 L 708	.4	600	3 1/2x2 1/2x1 1/2	4.41
13 L 736	.6	600	4 5/8x2 1/2x1 1/2	5.15
13 L 709	.8	600	7 1/2x3 3/4x1 1/2	6.31
13 L 725	.5	1000	2 1/2x1 1/2x1 1/2	6.78
13 L 717	1	1000	2 1/2x1 1/2x1 1/2	2.72
13 L 711	2	1000	4 1/2x1 1/2x1 1/2	2.94
13 L 712	4	1000	4 1/2x1 1/2x1 1/2	3.68
13 L 714	10	600	4 5/8x3 3/4x1 1/2	4.94
13 L 719	10	1000	7 1/2x3 3/4x1 1/2	7.66
13 L 726	10	1000	4 5/8x3 3/4x1 1/2	8.09
13 L 735	12	1000	3 3/4x3 3/4x2 1/2	8.86
13 L 730	15	1000	4 3/4x3 3/4x2 1/2	11.04
13 L 718	1	2000	4 3/4x3 3/4x2 1/2	4.73
13 L 719	2	2000	4 3/4x3 3/4x2 1/2	5.83
13 L 720	4	2000	3 3/4x3 3/4x2 1/2	8.16
13 L 737	8*	2000	4 3/4x3 3/4x3 3/4	12.34

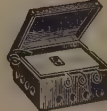
TYPE DYR PAPER CAPACITORS

Metal cased, Dykanol paper by-pass capacitors. Non-inductively wound. For RF and audio by-pass, AF coupling circuits. Tolerance: $\pm 10\%$. 600 WVDC, except *1000 WVDC. Operating range: -55°C to $+85^{\circ}\text{C}$, 6 oz.

Stock No.	Type	Mfd	Size	EA.
14 L 621	6010	.1	1 1/2x1 1/2x1 1/2	1.78
14 L 622	6025	.25	1 1/2x1 1/2x1 1/2	1.85
14 L 623	6050	.5	1 1/2x1 1/2x1 1/2	1.95
14 L 626	6055	.05-.05	1 1/2x1 1/2x1 1/2	2.36
14 L 624	6100	1.0	2x1 1/2x7/8	2.28
14 L 625	6200	2.0	1 1/2x1 1/2x1 1/2	2.73
14 L 627	6011	1-1	1 1/2x1 1/2x1 1/2	2.44
14 L 628	6022x	25-.25	1 1/2x1 1/2x1 1/2	2.50
14 L 629	6055	5-.5	2x1 1/2x7/8	2.80
14 L 630	6110	1.0-1.0	2x1 1/2x1 1/2	3.42
14 L 611	6111	.25	1 1/2x1 1/2x1 1/2	2.73
14 L 615	10025*	.25	1 1/2x1 1/2x1 1/2	1.89
14 L 616	10050*	.5	2x1 1/2x7/8	2.06

QUIETONE FILTERS

Wired-in Types



A Type IF-7A. Designed for permanent installation at the source of interference. Inductive type filter suppresses AC interference to radios, TV, etc. Attaches to burners, electric motors in dishwashers, postal units, washing machines, home shop tools, etc. For use with appliances operating on single-phase 110-220 volt AC or Rated 5 amps. 6x6x4". Shpg. wt., 9 lbs.

B Type IF-5A. General-purpose capacitive inductive filter for use in the home or industry. Eliminates moderate interference from fluorescent fixtures, motors—appliance drawing 2 amps or less from power. Miniature size permits easy installation anywhere. Rated 110-220 volts, AC or 1 1/2x2x2" U.L. Approved. Wt., 8 oz.

C Type IF-24. Designed for permanent installation at the source of interference. Use with motors, fans, fluorescent fixtures, etc. Miniaturized for easy installation. Mounting strap has spade lug for easy connection. Flexible 77 leads. Size, 1 1/2x3 1/2". For 110 v. or DC. U.L. Approved. Wt., 6 oz.

Plug-in Types



D Type IF-18. Highly effective all wave passive-inductive type of filter especially designed for suppression of severe interference. For use wherever ventilating or conditioning units, washing machines, or machine interfere with reception. Bakelite case, 6x2 1/2x2 1/2" with line cord and plug attached. Binding post for attachment of ground if used. Rated at 115 volts, AC-DC, 5 amp. Shpg. wt., 4 lbs.

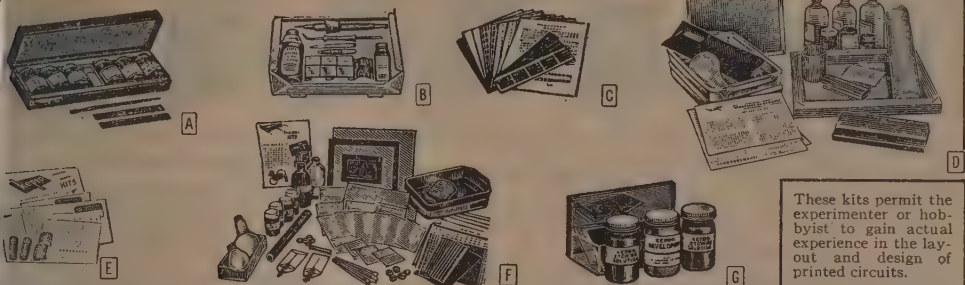
E Type IF-19. Effective capacitive-inductive type filter for use wherever interference is severe. Can be used to eliminate interference from electric fans, diathermy machines, signs, washing machines, food mixers, etc. Similar devices. Well suited for permanent attachment to baseboard, back of receiver, or any convenient location. Has terminal for ground connection. Rated 115 volts, AC-DC, 5 amp. Bakelite case, 4x2 1/2x2 1/2" Shpg. wt., 4 lbs.

F Type IF-4. Efficient, plug-in type of medium-intensity interference filter produced by fluorescent light fixtures, electric shavers, food mixers, billing machines, similar devices. Well suited for use with small receivers such as AC-DC midget sets, portable sets, etc. Filter plugs directly into filter. Rated at 115 volts, AC-DC, 5 amp. 1 1/2x1 1/2x1 1/2" Shpg. wt., 5 oz.

G Type IF-6. Convenient plug-in filter designed for elimination of moderate interference. Especially suitable for suppression of interference caused by fluorescent lights, electric shavers and similar devices. For installation as accessory of a portable or semi-portable receiver on radios, TV's, etc. Connects between power line and appliance, or between power line and receiver. Rated at 115 volts, AC 5 amp. 1 1/2x1 1/2x1 1/2" Shpg. wt., 6 oz.

Printed Circuit Kits, Filters, and Hardware

PRINTED CIRCUIT KITS



These kits permit the experimenter or hobbyist to gain actual experience in the layout and design of printed circuits.

Nero-Circuits S21 Kit. Lets you create 1 types of miniature-sized electronic equipment. Make resistors, capacitors, connecting and many other components. Kit also lets you to paint your own radio circuit and repairs on printed circuits. Includes: silver-conducting paint; low, medium, and very high resistance paints; insulating varnish; solvent brush cleaner; the manual, "Sign and Repair of Printed Circuits." Other literature. Wt., 1 1/4 lbs. **14C**

E-C Electronics 683 Repair Kit. You'll be able to save time and minimize replacement of printed circuit components with this repair kit. Permits quick repair jobs on resistors, capacitors, coils, wiring, sockets, lugs, or foil, etc.—a valuable service aid. Includes: foil; solder washers; solder; soldering iron; soldering tips; flux; solder brush; 6 oz. spray can of silicone resin varnish; solvent for removing solder; tweezers; soldering iron; 7x12 1/2x3 1/2". 1 lb. **13B**

Keppo Model PL-2A Photo Layout Kit. Ends the necessity of inking and lettering of mechanical negative materials and saves layout time required is less than half of needed for conventional methods. Errors in work are easily corrected without destroying original work. Materials may be used for negative. Contents: One card each of tape dots, 1/8" tape strips, 1/8" tape strips, assorted sizes letters and numerals; 1 acetate sheet; 1 mechanical negative; 2 graph paper instructions and data. Wt., 1 lb. **13B**

Keppo P-101A Professional Etched Circuit Kit. For professional, photo-machined quality etched circuits. Negative of circuit can be produced photographically or manually with negative materials supplied. Includes: 3 sheets of sensitized photo board; 1 mechanical negative; aluminum etching tray; plastic etching tray; 1 cleaning brush; 1 bottle of developer; 2 bottles of etching solution; 1 print glass; 2 clamps. 3 lbs. **109**

D Keppo SC-60 Silk Screen Kit. Contains all necessary materials to produce 3 silk screens with print areas up to 7x9" each. Materials produce lacquer-resistant film type photo stencils. No dark room is required. Designed for screen printing production quantities of etched circuit boards, nameplates, instrument panels or decorative printing. Includes: screen frame with silk, 10x12"; 2 pieces of screen silk, 14x16"; 1 roll 8x30" stencil film; #2 photofool; stencil developing and short stop chemicals; developing and short stop trays; 8 1/2x11 1/2" print frame; thermometer; black and white screening ink; plus other accessories. With instructions. 20 lbs. **11 LU 142**

E Keppo NP-303A Enamel Nameplate and Panel Kit. Produces permanent, blue enamel and natural aluminum nameplates in a simple, 4-minute process. Includes 2 sheets of 8x10x.007" sensitized enamel plate, accessories. Wt., 1 lb. **11 LU 141**

Keppo NP-404 Anodized Aluminum Nameplate and Panel Kit. (Not illus.) Utilizes a photographic process to fabricate black anodized aluminum panels with desired nomenclature for dials, panel overlays, meter faces, etc. Printing is permanently etched in surface of metal, and finished plate withstands weathering, abrasion, and solvents. Includes: 3 sheets of 3x3x.015" sensitized anodized aluminum plate; 3-3x6" acetate sheets; pressure sensitive letters and numerals; 3x6" print glass; developer; clamps; package of etching powder; aluminum developing tray and plastic etching tray. With instructions and data sheet. Shpg. wt., 1 1/2 lbs. **11 LU 144**

Keppo S-101A Standard Etching Kit. (Not illus.) An economy etching kit designed for use in the development of a circuit pattern. Ideal for the beginner or for bread-boarding use by engineers. Contains: 3 unsensitized copper-clad phenolic boards; 1 bottle etching resist; 1 package assorted tapes and dots; 1 brush; 1 cleaning pad; 1 bottle etching solution; and easy-to-follow instructions. Wt., 1 1/2 lbs. **11 LU 119**

F Keppo L-505A Printed Circuit Lab. Used for a wide range of P.C. board requirements—from prototypes through short production runs. Kit contains: 15 assorted photosensitized, copper-clad phenolic XXXP boards; 4 unsensitized boards; developing and etching trays; safelight; photofool lamp, printing frame; PL-2A layout kit; mechanical negative; etching and developing solution; paint resist and thinner; plastic and aluminum trays; eyelet assortment; cleaning pad; instructions plus descriptive literature. Heavy-duty processing equipment—handles boards to 70 inches. Shpg. wt., 20 lbs. **11 LU 105**

KEPPO PRINTED CIRCUIT MATERIALS

A selection of quality printed circuit materials either for replacement use in Keppo DC kits or for those currently engaged in printed circuit development. Have .00135" thick copper coating. All sheets (sold below) have foil on both sides, except which have coating on one side only. 5 sheets per pkg. Av. shpg. wt. of sheets, lb.; 2 oz. solutions, 6 oz.; pints, 3 lbs.

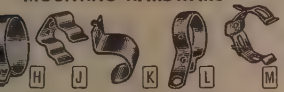
XXXX 1/8" PHENOLIC SHEETS					
Stock No.	Type	Description	Size	PER PKG.	
13 L 941	P1-35SPB	Perf. Unson.*	3x6"	2.40	
13 L 943	P2-35S	Perf. Unson.	3x6"	2.55	
13 L 945	P1-33SG	Light sensitive*	3x6"	2.15	
13 L 946	P1-35SG	Light sensitive*	3x6"	3.55	
13 L 950	S2-33SG	Light sensitive	3x3"	2.35	
13 L 952	S2-35SG	Light sensitive	3x6"	5.05	

G-10 1/8" GLASS EPOXY SHEETS					
Stock No.	Type	Description	Size	PER PKG.	
13 L 965	P1-33SG	Light sensitive*	3x6"	3.70	
13 L 966	P1-35SG	Light sensitive*	3x6"	6.65	
13 L 970	S2-33SG	Light sensitive	3x3"	4.55	
13 L 971	S2-35SG	Light sensitive	3x6"	8.15	

CHEMICALS

Stock No.	Type	Description	Size	EACH	
11 L 674	R-2	Paint resist	2 oz.	.60	
11 L 675	I-2	Resist thinner	2 oz.	.60	
11 L 676	D-1PT	Developing sol.	Pint	1.15	
11 L 677	E-1PT	Etching solution	Pint	.85	

MOUNTING HARDWARE



Mounting hardware for all types of capacitors. Fully designed to suit tubular and can-capacitor installations—above as well as on chassis. Cadmium-plated metal. 2 oz.

Stock No.	Fig.	Description	2 For	
880	H	Mtg. Ring; 1 1/4" dia. cans	36¢	
881	H	Mtg. Ring; 1 1/2" dia. cans	36¢	
882	H	Mtg. Ring; 1 3/4" dia. cans	36¢	
883	J	Mtg. Clip; 1 1/4" dia. cans	24¢	
884	J	Mtg. Clip; 1 1/2" dia. cans	24¢	
885	J	Mtg. Clip; 1 3/4" dia. cans	24¢	
886	K	"C" Clamp; 3/4"-1" cans	24¢	
887	K	Mtg. Strap; 1 1/4" dia. cans	18¢	
888	L	Mtg. Strap; 1 1/2" dia. cans	18¢	
889	L	Mtg. Strap; 1 3/4" dia. cans	18¢	
890	M	For 1/2"-1 1/4" dia. cans...	24¢	
891	M	For 1/2"-1 1/2" dia. cans...	24¢	
892	M	For 1/2"-1 3/4" dia. cans...	24¢	
893	M	For 1/2"-1 1/2" dia. cans...	30¢	
894	M	For 1/2"-1 3/4" dia. cans...	30¢	
895	M	For 1/2"-1 1/2" dia. cans...	30¢	
896	M	For 1/2"-1 3/4" dia. cans...	30¢	
897	M	For 1/2"-1 1/2" dia. cans...	30¢	

SPRAGUE NOISE FILTERS

Type IF. Compact, multi-section filters for suppressing man-made radio and TV interference. Small and completely self-contained. For use on fuses, drills, thermostats, arcing devices, etc. Rated up to 220 volts, AC or DC. Easily installed. Av. shpg. wt., 8 oz.

Stock No.	Type	Fig.	Size	Sections	EACH
13 L 560	IF-21	P	1x2 1/4"	Dual	1.05
13 L 561	IF-31	S	1x2 1/4"	Single	.69
13 L 562	IF-31	P	1x2 1/4"	Triple	1.35

Filter Types. Specially designed chokes and coils. Combined in series with power supply lines of industrial interference-producing devices. Type 4, Fig. S, provides high attenuation at frequencies above 5 megacycles. Single-hole mounting. Rated at 115 v. AC or DC. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Amps	Fig.	Size	EACH
13 L 556	2	10	S	1 1/2x2 1/2"	8.88
13 L 558	4	20	S	1 1/2x1 1/4"	1.83

SPRAGUE "HYPASS" CAPACITORS

Feed-through VHF by-pass capacitors. Instantly suppresses 4818 for voltage regulator. *Screw term. 1AC volts. *Bulk-head mtg. Vt., 2 oz.

Stock No.	Type	Mfd. Amps.	WVDC	Size	EACH
15 L 688	4818P*	5	40	50 1x1 1/4"	2.28
15 L 970	4818P*	1	20	250 1 1/2x1 1/4"	1.56
15 L 689	4818P*	1	20	600 1 1/2x1 1/4"	1.56
15 L 683	4612P	.002	15	600 1 1/2x1 1/4"	.29
15 L 972	47P6	.01	20	600 1 1/2x1 1/4"	1.41
15 L 689	6093P*	1	20	600 1 1/2x1 1/4"	1.77
15 L 973	4712P	.005	20	1000 1 1/2x1 1/4"	1.44
15 L 974	4712P	.01	20	1000 1 1/2x1 1/4"	1.56
15 L 993	4715P	.01	20	2500 1 1/2x1 1/4"	1.86

FEDTRO "TV TROUBLE TRAPPER"

Constant "K" type high-pass filter. Greatly reduces interference caused by signals below 54 mc. Quickly and easily attached to the antenna terminals of any TV set. Eliminates Amateur signals, diathermy and other industrial interference, ignition noises, etc. Attenuation of undesired signals in excess of 40 db. Size 1 1/2x3x1 1/4". Shpg. wt., 12 oz. **13 L 570**

Knight® Transformers and Chokes



Compare specifications and prices. Allied's own Knight components always give you more for your money!

FILAMENT TRANSFORMERS

Primaries, 117 volts, 50-60 cycles. All center-tapped, except †. *107 v. tap on primary. †Has electrostatic shield.

Stock No.	Fig.	V	Amps	Insul., RMS V	Size	Wt., Lbs.	EACH
64 G 132	A	2.5	3	1500	1½x3½x11½"	¾	2.12
61 G 478	F	2.5	5.0	5000	2½x4¾x2½"	1¾	2.86
61 G 474	H	2.5	10.0	2500	3½x6x2½"	2¾	4.06
64 G 133	A	2.5	10	3000	2½x3½x2½"	1½	3.51
61 G 475	A	5.0	3.0	2500	2x3½x2"	1½	2.52
62 G 028	A	5.0	6.0	2500	2½x3½x2½"	1¾	3.03
61 G 416	A	6.3	0.6	1500	1½x2½x1½"	½	1.43
62 G 030	A	6.3	1.0	1500	1½x2½x1½"	¾	1.50
61 G 419	A	6.3	1.2	3000	1½x2½x1½"	¾	1.51
62 G 031	A	6.3	3.0	2500	2x3½x2½"	1½	2.46
61 G 477	H	*6.3	4.0	2500	3½x6x2½"	2¾	4.11
64 G 134	H	6.3	6	1500	3½x2½x2½"	2½	4.92
61 G 418	D	6.3	6.0	2500	3x2½x2½"	2½	3.92
64 G 135	H	6.3	20	2000	3½x3½x2½"	3½	4.78
64 G 136	A	12.6	1.5	1500	2x3½x2½"	1½	2.75
61 G 420	A	12.6	2.0	1500	2x3½x2½"	1½	2.49
64 G 137	A	12.6	2.5	1500	2½x3½x2½"	1¾	3.91
61 G 421	A	†25.2	1.0	1500	2x3½x2½"	1½	2.36
64 G 140	A	25.2	2.0	1500	2½x4x2½"	2½	4.25
61 G 476	A	26.5	0.6	3000	2x3½x2"	1½	2.26
64 G 145	A	26.8	1.0	1500	2x3½x2½"	1½	2.75

VARIABLE VOLTAGE AND ISOLATION TRANSFORMERS

Output, 115 v., except *105, 115, 125. 50-60 cps. 6' cord, plug.

Stock No.	Fig.	Watts	Input Volts	Size	Mtg. Ctrs.	Wt., Lbs.	EACH
62 G 080	E	150	90-250	4½x3¾x5½"	3x3½"	9½	13.11
61 G 490	E	100	105-125	4½x3¾x4½"	3x2½"	7½	11.85
62 G 563	M	*350	117	5½x4½x5½"	3½x3½"	16	19.60

ISOLATION TRANSFORMERS

Reduce shock hazard by isolating equipment from AC power line. Prevent "hot chassis" when servicing AC-DC equipment. For 115 v., 50-60 cycles. With 6-ft. cord, plug, standard AC receptacle.

Stock No.	Watts	Size	Wt., Lbs.	EACH
61 G 426	50	3 ⁵ / ₈ x3x3 ³ / ₈ "	3 ¹ / ₂	5.67
62 G 086	100	4 ³ / ₈ x3 ⁵ / ₈ x4"	7-	10.00
62 G 087	250	4 ⁵ / ₈ x3 ⁷ / ₈ x4 ⁵ / ₈ "	12 ¹ / ₂	17.50

MINIATURE INTERCOM/TRANSCIVER TRANSFORMERS

Transceiver and intercom transformers designed to replace original units. *Transceiver input, mike or plate to grid; has 4.5% primary tap used in B + filter network for hum reduction. †Intercom input, voice coil to grid. ‡Line to voice coil—this unit is Fig. B. All are standard single plate to voice coil outputs. Av. shpg. wt., ½ lb.

Stock No.	Impedance, Ohms	Audio Watts	Mtg. Ctrs.	EACH
	Primary	Secondary		
61 G 491	*200/5000	60,000	5	2.08
61 G 492	†45	25,000	3	1.65
61 G 493	†45/50	3-4, 6-8	3	1.44

AUDIO TRANSFORMERS

Maximum DC permissible in primary is 10 ma. Single plate to P-P grid except *, single plate to single grid, †single or P-P plate to P-P grid. ½x½" cores. Shpg. wt., ½ lb.

Stock No.	Impedance, Ohms		Turns Ratio	Size	EACH
	Primary	Secondary			
62 G 062	*7000	20,000	1:3	1½x2¾x1¾"	1.47
61 G 415	7000-15K		1:3	1½x2¾x1¾"	1.74
61 G 458	10,000	40,000 CT	1:2	1½x2¾x1½"	1.74
61 G 459	10,000	90,000 CT	1:3	2x3½x2"	2.64
61 G 460	†10,000 CT	90,000 CT	1:3	1½x2¾x1½"	2.18

POWER TRANSFORMERS

Efficient power transformers recommended for radio set replacement use, home hobbyists, etc. Fully shielded; heavy-duty 5" flange coded ladders. All plate windings are center-tapped, except *H wave type; for 6AX5, 6X4, 6X5 and similar 6.3 v. filament rectifier and for selenium rectifiers. CT 6.3 v. winding except † has 2—6.3 windings. †Not CT. 110-120 volt, 50-60 cycle primaries.

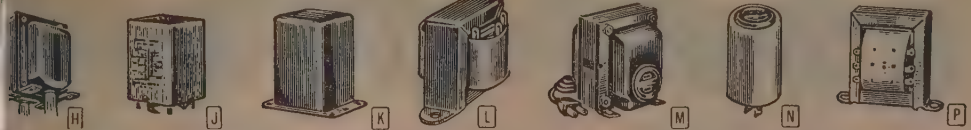
Stock No.	Fig.	Plate VCT	Ma	5 V at A	6.3 V at A	Mtg. Ctrs.	Wt., Lbs.	EACH
61 G 410	F	*125	15	.....	10.6	2"	1½	1.7
61 G 411	A	*125	50	.....	12	3½"	1½	2.7
62 G 008	F	250	25	.....	11	2½"	1	2.0
61 G 461	H	460	50	.....	12.5	2x1¼"	2½	3.8
62 G 502	G	460	50	.....	12.5	2½x2"	2½	3.8
62 G 034	G	480	40	2	2	2½x2"	2½	4.0
61 G 427	H	480	40	2	2	2x1½"	2½	4.0
61 G 462	H	480	55	2	2	2x1¼"	3	4.5
61 G 463	H	480	70	.....	†3	2x1¼"	3	4.4
62 G 505	H	500	40	2	2	2x1½"	3	4.4
62 G 551	H	500	40	.....	2	1½x1½"	2½	4.3
61 G 464	H	500	70	2	2.5	2½x2½"	3½	5.2
61 G 467	H	520	90	.....	†4	2½x2½"	3½	5.2
61 G 444	G	520	90	2	3	2½x2½"	4	5.1
61 G 412	H	520	90	2	3	2½x2½"	4	5.1
62 G 554	H	525	90	2	5	2½x2½"	4½	11.1
61 G 466	H	540	120	3	3.5	2½x2½"	5	7.3
61 G 467	G	550	50	2	2.5	2½x2½"	3½	5.8
61 G 468	G	600	70	2	3	2½x2½"	3½	6.3
62 G 523	H	600	90	2	3.5	2½x2½"	4½	6.5
61 G 469	G	600	120	3	5	3½x2½"	6	7.9
62 G 041	G	650	40	2	2	2½x2"	2½	4.1
61 G 413	H	650	40	2	2	2x1½"	2½	4.1
61 G 470	H	650	55	2	2	2x2½"	3½	4.8
62 G 042	G	650	70	3	3.5	2½x2"	4½	4.2
61 G 428	H	650	70	3	3.5	2x2½"	4½	4.2
61 G 471	G	650	150	3	5	3½x2½"	7½	7.8
61 G 472	H	680	70	2	2.5	2½x2½"	4	5.5
62 G 043	G	700	90	3	3.5	2½x2½"	4½	5.7
61 G 429	H	700	90	3	3.5	2½x2½"	4½	5.7
62 G 044	G	700	120	3	4.7	3½x2½"	5½	6.2
61 G 430	H	700	120	3	4.7	2½x2½"	5½	6.2
62 G 535	H	700	200	3	6	3x2½"	8	10.2
62 G 045	G	750	150	3	5	3½x2½"	6½	8.7
61 G 431	H	750	150	3	5	2½x3½"	6½	8.7
62 G 553	H	750	175	3	8	2½x3½"	9½	11.1
62 G 033	G	800	200	3	5	3x3½"	8	9.8
61 G 414	H	800	200	3	5	3x2½"	7½	9.8
62 G 548	H	800	250	4	†5	3x3½"	10½	11.5
61 G 473	H	1200	200	3	†3.3	3x3½"	9½	11.5

FILTER CHOKES

Excellent for receivers, low-power transmitters, etc. 1500 v. insulation, except *2000 v. †3000 v. ‡Fig. D. †Fig. H.

Stock No.	Hys.	Ma	Res., Ohms	Mtg. Centers	Wt., Lbs.	EACH
61 G 405	0.8	375	25	3½"	1½	2.4
61 G 479	*1.0	300	40	3½"	1½	2.4
61 G 480	†1.5	10	95	1¼"	¼	1.2
61 G 406	1.5	200	60	2½"	¾	1.3
61 G 481	2.0	200	65	3½"	1¾	2.3
61 G 482	2.3	150	60	2½"	1	1.8
61 G 483	*3.0	150	97	3½"	1¾	2.0
61 G 407	3.5	50	200	2½"	¾	1.1
62 G 135	5.5	50	330	2"	½	0.9
61 G 408	7.0	50	550	2"	½	1.0
61 G 484	7.0	150	260	3½"	2½	2.4
61 G 485	8.0	85	260	2½"	1½	2.0
62 G 136	8.5	50	400	2½"	¾	1.1
61 G 409	†18.5	200	140	2½x2½"	3½	5.4
62 G 139	10.5	110	220	3½"	2½	2.4
61 G 486	†12/8/4	100/150/200	145	2x1¼"	2¾	3.5
61 G 487	13.0	65	385	3½"	1	1.9
62 G 138	15.0	75	400	3½"	1¾	2.0
62 G 137	16.0	50	550	2½"	1	1.5
61 G 488	†16.0	80	365	2x1¼"	2¾	3.8
61 G 489	20.0	15	900	2½"	¾	1.6

knight Transformers—for Low-Cost Dependability



L STANDARD LINE-TO-VOICE-COIL TRANSFORMERS

-ohm primary, except *2000/1500/1000/500 and ‡3000/2000/0/1000/500 ohms. †Fig. P.

Stock No.	Secondary Imp., Ohms	Audio Watts	Size	Wt. Lbs.	EACH
G 442	4-8	*4	1 3/8x2 3/8x1 1/2"	1/2	1.70
G 423	6-8/3.2	5	1 3/8x2 3/8x1 1/2"	1/2	1.29
G 425	6-8/3.2	*8	1 5/8x2 3/8x1 5/8"	3/4	2.10
G 443	4-8	*12	2x3 1/4x1 1/4"	1 3/4	2.30
G 451	4/8/16	†10	2 3/8x2 3/8x1 1/2"	1 3/4	2.77
G 424	15/8/6/4	†25	2 3/8x2 3/8x1 1/2"	1 3/4	2.49

70.7-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

Secondaries: 4, 8, 16 ohms, except *3.2-4, 6-8, †High-fidelity.

Stock No.	Fig.	Watt Taps	Max. Watts	Size	Wt. Lbs.	EACH
G 440	L	2, 1, .5	*2	1 3/8x2 3/8x1 1/4"	1/4	1.93
G 081	L	5, 2.5, 1.25, .62, .31	*5	1 3/8x2 3/8x1 1/4"	3/4	1.92
G 422	P	4, 2, 1, 0.5	8	2x2 3/8x1 5/8"	3/4	2.54
G 077	L	10, 5, 2.5, 1.25, .62	10	1 5/8x2 3/8x1 5/8"	3/4	2.41
G 078	P	18, 9.4, 5, 2.25, 1.12, .56	18	2 3/8x2 3/8x1 1/4"	1 3/4	2.95
G 450	P	16, 8, 4, 2, 1, 0.5	16	2 3/8x2 3/8x1 1/4"	2	3.89
G 079	L	24, 12, 6, 3, 1.5, .75	24	2 1/4x3 1/8x2 1/4"	1 3/4	3.54
G 441	L	5, 2.5, 1.25, .625, .31	15	1 5/8x2 3/8x1 5/8"	3/4	2.53

25-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

G 436	L	2, 1, 0.5	*2	1 3/8x2 3/8x1 1/4"	1/4	1.89
G 437	L	5, 2.5, 1.25, 0.625, 0.31	*5	1 5/8x2 3/8x1 5/8"	3/4	2.20
G 438	L	10, 5, 2.5, 1.25, 0.625	10	2 1/4x3 1/8x2 1/4"	1 3/4	3.13
G 439	L	18, 9, 4.5, 2.25, 1.12	18	2 5/8x4x2 1/4"	2 1/2	3.73

230 TO 115-VOLT STEP-DOWN AUTOTRANSFORMERS

Full-built step-down transformers for reducing 220-250 volts, 50-60 cycles to 110-125 volts. For operating tape recorders, radios, amplifiers, household appliances, etc. Shielded construction. With 8-ft. cord and plug. Standard AC receptacle on case.

Stock No.	Fig.	Volt-Amps	Size	Wt. Lbs.	EACH
G 494	N	8	3 3/4x3 1/8"	1	3.00
G 555	A	20	2x3 1/4x2"	1 1/4	2.37
G 556	A	40	2 5/8x3 3/8x2 1/8"	1 3/4	3.09
G 510	M	80	3 3/8x3 3/8x3 1/4"	3 1/4	5.70
G 557	M	100	3 1/2x2 3/8x3 3/8"	4	6.00
G 511	M	150	4x3 3/8x3 3/8"	4 3/4	7.20
G 512	M	250	4 5/8x3 3/8x4 1/4"	7 3/4	9.45
G 513	M	500	4 5/8x3 3/8x4 3/4"	11	13.00
G 434	M	750	5 1/2x4 5/8x5"	13 1/4	16.33
G 432	M	1000	5 1/2x4 5/8x5 1/4"	14 3/4	20.23
G 435	M	1500	6x4 1/2x5 3/8"	20	24.00
G 433	M	2000	6x4 1/2x6 3/8"	25	27.20

M NEW 115 TO 230-VOLT STEP-UP AUTOTRANSFORMERS

Increase 110-125 volts, 50-60 cycles, to 220-250 volts. Shielded construction. 8' cord, plug, Std. AC receptacle on case.

Stock No.	Volt-Amps	Size	Wt. Lbs.	EACH
G 558	80	3 3/8x3 3/8x3 1/4"	3 1/4	5.70
G 559	150	4x3 3/8x3 3/8"	4 3/4	7.19
G 560	500	4 5/8x3 3/8x4 3/4"	10 1/4	13.00

CONTROL TRANSFORMERS

Automation-type transformers for use in high-speed automatic equipment, relays, pilot lamps, solenoids, small motors, etc. May be used in high current, low voltage power supplies. Secondary has no identical windings which permit series or parallel operation. Primary operates from 115 or 230 v., 50-60 cycles.

Stock No.	Fig.	Parallel Sec. Volts	Series Sec. Volts	Size	Wt. Lbs.	EACH
G 351	P	6	2	12	1	2.60
G 352	P	6	4	12	2	3.03
G 353	P	12	4	24	2	3.98
G 354	D	12	8	24	4	6.62

Knight transformers are specially built to our own specifications—to give you more for your money.

A STANDARD OUTPUT TRANSFORMERS

Couple plate of output tube to speaker voice coil. For Class A amplifiers. Secondary imp., 3.2 ohms, except *3.5, †4 ohms, and ‡6-8 ohms. ‡4.5% primary tap. **Fig. F. Shpg. wt. 3/4 lb.

Stock No.	Primary Imp.	Ma	Audio Watts	Size	EACH
61 G 401	2000	50	3	1 1/4x2 1/8x1 1/4"	1.02
62 G 065	2000	50	.5	1 3/8x2 3/8x1 3/8"	1.00
61 G 445	*2000	60	3	1 3/8x2 3/8x1 1/2"	1.48
61 G 402	†2000	60	3	1 3/8x2 3/8x1 3/8"	1.07
62 G 063	2500	50	3	1 1/4x2 1/8x1 1/4"	1.07
61 G 400	*4000	10	3	1 1/4x2 1/8x1 1/4"	1.00
62 G 064	5000	40	3	1 1/4x2 1/8x1 3/8"	1.07
61 G 403	†5000	40	5	1 3/8x2 3/8x1 3/8"	1.07
61 G 446	**15000	40	10	2 3/8x2 3/8x1 7/8"	1.89
61 G 407	†7000	30	5	1 3/8x2 3/8x1 3/8"	1.25
62 G 093	8000	20	3	1 1/4x2 1/8x1 3/8"	1.00
61 G 448	†10,000	30	5	1 3/8x2 3/8x1 3/8"	1.20
61 G 449	†25,000	5	5	1 3/8x2 3/8x1 3/8"	1.42

B UNIVERSAL OUTPUT TRANSFORMERS

CT primary, except *single-ended output, 6 taps on secondary. Match single or push-pull tubes to speaker voice coil. †Fig. C.

Stock No.	Primary Impedances	Watts	Mtg. Ctrs.	Wt. Lbs.	EACH
62 G 023	2000-14,000 ohms	4	2"	1/2	1.77
62 G 021	2000-14,000 ohms	8	2 3/8"	3/4	1.99
61 G 452	†2000-14,000 ohms	8	2"	3/4	2.28
62 G 022	†2000-14,000 ohms	18	2 3/8"	1 1/4	2.84
61 G 453	6000-10,000 ohms	8	2 3/8"	1 1/4	2.54
61 G 404	*7000-10,000 ohms	4	2"	1/2	1.37
61 G 454	5000, 10K, 20K	15 ma	2 3/8"	1	3.04

FIXED-IMPEDANCE OUTPUT TRANSFORMERS

For a wide variety of audio applications. All have center-tapped primary for push-pull operation.

Stock No.	Fig.	Impedance, Ohms		Audio Watts	Mtg. Centers	Wt., Lbs.	EACH
		Primary	Secondary				
61 G 457	A	4000	8/16/32	7½	3⅛"	1¾	3.04
61 G 455	H	66K	4/8/15/250/500	35	2½x2¼"	5¼	7.20
61 G 456	A	25K	4	5	2"	½	1.65

HIGH-FIDELITY PUSH-PULL OUTPUT TRANSFORMERS

For use in high-fidelity audio amplifiers. All have screen taps on primary winding for ultra-linear type operation. Frequency response flat from 15 to 35,000 cps, except *which do not have screen taps and have response flat from 20 to 20,000 cps. All have 4, 8, and 16 ohm secondaries. †Maximum DC in each half primary.

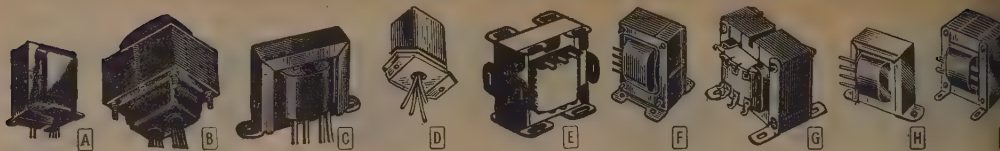
Stock No.	Fig.	Watts	P-P Imp.	†ma	Size	Wt. Lbs.	EACH
62 G 082	J	12	8000	60	3 3/4x3 3/8x3 1/4"	3 1/2	7.90
62 G 018	J	*18	8000	65	3 3/4x3 3/8x3 1/4"	3 1/2	8.50
62 G 083	K	24	6600	75	4 1/4x3 3/8x4 1/2"	6 1/2	13.01
62 G 019	K	30	6600	100	4 1/4x3 3/8x4 1/2"	7	14.01
62 G 024	H	12	8000	60	3 1/2x2 5/8x2 3/8"	2 1/2	6.76
62 G 058	A	*18	8000	65	2 5/8x4x2 1/4"	2 1/4	5.35
62 G 054	H	24	6600	75	3 7/8x3 1/4x3 7/8"	6	11.35
62 G 059	H	30	6600	100	3 7/8x3 1/4x4"	6	11.85

D MULTI-TAP SELENIUM RECTIFIER TRANSFORMERS

Tapped primary and additional tapped winding permit a variety of output voltages in addition to those shown. 117 v., 50-60 cycle primaries. Include wiring diagram. *Capacitive load.

Stock No.	Rect. Circuit	Range of AC Volts	Max DC Output*	Volts Amps	Size	Wt. Lbs.	EACH
62 G 331	C.T.	11.5 to 29.5	13.6	2	3x2 1/2x2 3/4"	2 3/4	4.66
62 G 332	Bridge	11.0 to 28.5	30.0	1.25	3x2 1/2x2 3/4"	2 3/4	4.66
62 G 333	C.T.	12.0 to 29.0	14.5	4	3x2 1/2x2 3/4"	2 3/4	4.66
62 G 333	Bridge	12.0 to 29.0	33.0	2	3x2 1/2x2 3/4"	2 3/4	4.66
62 G 333	C.T.	11.5 to 29.0	14.5	8	3x2 1/2x2 3/4"	2 3/4	4.66
62 G 334	Bridge	11.5 to 29.0	32.2	4	3 3/4x3 3/8x3 1/2"	6 1/4	7.95
62 G 334	C.T.	12.0 to 29.5	14.2	12	3 3/4x3 3/8x3 1/2"	6 1/4	7.95
62 G 335	Bridge	12.0 to 29.5	32.0	6	4 1/8x3 1/2x3 7/8"	9	10.52
62 G 335	C.T.	12.0 to 29.0	14.5	15	4 1/8x3 1/2x3 7/8"	9	10.52
62 G 335	Bridge	12.0 to 29.0	32.0	8	4 5/8x3 3/4x5"	13	12.85

Stancor Transformers and Chokes



POWER TRANSFORMERS

For 6.3 Volt Tubes. All transformers have center-tapped 6.3 volt winding, except PS-8415, PS-8416, PC-8414, PC-8418, PC-8419, PC-8420, PC-8421, PC-8422 and PA-8421. For 6AX5, 6X4, 6X3 and similar 8.3 v. filament rectifiers, and for selenium rectifier. All are Figure B, except Types PC & P. For Figure A and PS is Figure C. PS-8414 has an extra 6.3 volt winding (not center tapped), rated at 3 amperes. All primary windings are for 117 volt, 60 cycle AC.

Stock No.	Mfr's Type	Plate VCT	Ma	5V @ 6.3V	Size	Wt. Lbs.	EACH
64 G 162	PS-8415*	125	15	6A	2 3/8 x 1 3/8 x 2"	2 1/2	2.32
64 G 078	PA-8421*	125	50	1A	2 3/8 x 3 3/8 x 2 3/8"	3 1/2	3.70
64 G 216	PS-8416*	250	25	1.0A	2 3/8 x 3 3/8 x 1 3/8"	2 1/2	2.79
64 G 077	PC-8418*	460	50	2.5A	3 3/8 x 2 3/8 x 2 3/8"	2 1/2	4.70
64 G 154	PM-8401	470	40	2A	2 3/8 x 3 3/8 x 2"	2 1/2	5.65
64 G 176	PC-8401	470	40	2A	2 3/8 x 3 3/8 x 2 3/8"	2 1/2	5.42
64 G 170	PM-8402	480	55	2A	3 1/8 x 2 3/8 x 3"	2 1/2	5.53
64 G 177	PC-8402	480	55	2A	3 1/8 x 2 3/8 x 3"	2 1/2	5.58
64 G 175	PM-8419*	480	70	3.0A	2 3/8 x 2 3/8 x 2 3/8"	2 1/2	5.41
64 G 215	PC-8419*	480	70	3.0A	3 3/8 x 2 3/8 x 2 3/8"	2 1/2	5.41
64 G 167	PM-8420*	520	90	4.0A	3 3/8 x 2 3/8 x 3 3/8"	3 1/2	6.56
64 G 168	PC-8420*	520	90	4.0A	3 3/8 x 2 3/8 x 3 3/8"	3 1/2	6.29
64 G 171	PM-8403	500	70	2A	2 5/8 x 3 3/8 x 3 3/8"	3 1/2	6.23
64 G 172	PC-8403	500	70	2A	2 5/8 x 3 3/8 x 3 3/8"	3 1/2	6.23
64 G 179	PC-8404	520	90	2A	3 3/8 x 3 3/8 x 3"	4	6.91
64 G 160	PM-8404	620	90	2A	3 3/8 x 3 3/8 x 3 3/8"	4	6.91
64 G 172	PM-8405	540	120	3A	3 3/8 x 3 3/8 x 3 3/8"	5	9.01
64 G 183	PC-8405	540	120	3A	4 3/8 x 3 3/8 x 3 3/8"	5	9.01
64 G 183	PC-8405	540	120	3A	4 3/8 x 3 3/8 x 3 3/8"	5	9.01
61 G 237	PM-8423	600	90	2A	3 3/8 x 2 3/8 x 3 3/8"	3 3/4	7.97
64 G 155	PM-8407	650	55	2A	2 3/8 x 3 3/8 x 3 3/8"	3 1/4	5.88
64 G 157	PM-8406	650	40	2A	2 3/8 x 3 3/8 x 2 3/8"	2 1/2	5.64
64 G 217	PC-8406	650	40	2A	3 1/8 x 2 3/8 x 2 3/8"	2 1/2	5.64
64 G 164	PC-8407	650	55	2A	3 1/8 x 2 3/8 x 2 3/8"	2 1/2	5.64
64 G 164	PC-8408	680	70	2A	2 5/8 x 3 3/8 x 3 3/8"	4	7.35
64 G 156	PM-8408	680	70	2A	2 5/8 x 3 3/8 x 3 3/8"	4	7.35
64 G 158	PM-8409	700	90	2A	2 3/8 x 3 3/8 x 3 3/8"	4 1/2	7.76
64 G 185	PC-8409	700	90	2A	3 3/8 x 3 3/8 x 3 3/8"	4 1/2	7.76
64 G 179	PM-8410	720	120	3A	3 3/8 x 3 3/8 x 3 3/8"	5	9.17
64 G 186	PC-8410	720	120	3A	3 3/8 x 3 3/8 x 3 3/8"	5	9.17
64 G 173	PM-8411	750	150	3A	4 3/8 x 3 3/8 x 3 3/8"	6	12.30
64 G 187	PC-8411	750	150	3A	4 3/8 x 3 3/8 x 3 3/8"	6	11.79
64 G 161	PM-8412	800	200	3A	5 3/8 x 4 3/8 x 3 3/8"	8 1/2	12.33
64 G 163	PC-8412	800	200	3A	5 3/8 x 4 3/8 x 3 3/8"	8 1/2	12.33
64 G 169	PC-8414	1200	200	3A	8 3/8 x 4 3/8 x 4 3/8"	8 3/4	14.46

DRIVER TRANSFORMERS

Single plate (10,000 ohms primary impedance) to push-pull grids. For use between first audio and push-pull output stage. 3/4 x 3/4" core except for A-4752 which has 1/2 x 3/4" core.

Stock No.	Mfr's Type	Pri./1/2 Sec. Ratio	Max. P.P.C. DC	Size	Wt. Lbs.	EACH
64 G 076	A-4713	2:1	30 ma	1 1/2 x 2 1/8 x 1 1/8"	1	2.08
64 G 038	A-4752	3:1	30 ma	1 1/2 x 2 1/8 x 1 1/8"	1	2.11
64 G 039	A-4753	2 1/5:1 1/1	40 ma	2 3/8 x 3 1/8 x 1 1/8"	1 1/2	2.87

SELENIUM RECTIFIER TRANSFORMERS

Use with CT or bridge rectifier circuits. Have tapped primary and additional winding for wide output voltage range. For 117 v., 50-60 cycle AC. With wiring chart.

Stock No.	Mfr's Type	Range of AC Volts	Max. DC Output Load	Size	Wt. Lbs.	EACH
			Resistive	Capacitive		
64 G 372	RT-201	11.7 to 29.11 v.	@ 2.0A 13.8 v.	@ 2.0A 3 3/8 x 2 3/8 x 3 3/8"	2 1/2	4.97
		11.1 to 28.23 v.	@ 1.25A 30.0 v.	@ 1.25A 3 3/8 x 2 3/8 x 3 3/8"		
64 G 373	RT-202	11.7 to 29.11 v.	@ 4.0A 14.7 v.	@ 4.0A 3 3/8 x 2 3/8 x 3 3/8"	4	6.75
		12.0 to 29.24 v.	@ 2.0A 33.0 v.	@ 2.0A 3 3/8 x 2 3/8 x 3 3/8"		
64 G 374	RT-204	11.7 to 29.12 v.	@ 8.0A 14.8 v.	@ 8.0A 4 3/8 x 3 3/8 x 3 3/8"	6 1/2	8.73
		11.5 to 28.24 v.	@ 4.0A 32.4 v.	@ 4.0A 4 3/8 x 3 3/8 x 3 3/8"		
64 G 375	RT-206	12.0 to 29.71 v.	@ 12.0A 14.4 v.	@ 12.0A 4 3/8 x 3 3/8 x 3 3/8"	9 1/4	11.87
		12.0 to 29.74 v.	@ 6.0A 32.0 v.	@ 6.0A 4 3/8 x 3 3/8 x 3 3/8"		
64 G 376	RT-208	12.1 to 29.11 v.	@ 15.0A 14.8 v.	@ 15.0A 4 3/8 x 3 3/8 x 3 3/8"	12 1/2	14.95
		12.1 to 29.23 v.	@ 8.0A 32.5 v.	@ 8.0A 4 3/8 x 3 3/8 x 3 3/8"		
34 GU 378	RT-212	12.2 to 29.01 v.	@ 22.5A 14.3 v.	@ 22.5A 5 3/8 x 4 3/8 x 3 3/8"	21	22.05
		12.2 to 29.02 v.	@ 12.0A 33.0 v.	@ 12.0A 5 3/8 x 4 3/8 x 3 3/8"		
61 G 135	P8193	.....	7.0 v. @ 2.5A 9.0 v. @ 2.0A	3 3/8 x 3 3/8 x 3 3/8"	6	8.44
		14.0 v. @ 6.0A 17.0 v. @ 4.0A				
61 G 136	P8194	.....	14.0 v. @ 2.5A 34.0 v. @ 2.0A	4 3/8 x 3 3/8 x 3 3/8"	10	14.35
		28.0 v. @ 5.2A 88.0 v. @ 3.5A				

HIGH-FIDELITY OUTPUT TRANSFORMERS

Freq. response of 20-20,000 cycles ± 1 db at rated watts. Max. power 50 w. except A8098, 15 w.; A8072, 25 w. *With screen taps. Size: 4 3/8 x 3 3/8 x 4 1/8" except A8098, 3 3/8 x 2 3/8 x 1 1/8"; 3 1/2 lbs. All others, 7 lbs., each.

Stock No.	Mfr's Type	Pri. Imp. (P-P)	Sec. Imp.	Max. P.P. Half	Rated Watts	EACH
64 G 563	A-8053	5000	8, 16	150 ma	25	13.36
64 G 570	A-8056	6000	8, 16	125 ma	25	12.80
64 G 564	A-8054	9000	8, 16	100 ma	25	13.36
64 G 574	A-8072*	7600	4, 8, 16	100 ma	26	16.27
61 G 183	A-8098	2000	8, 16, 32	140 ma	15	7.98

FILTER CHOKES

All ratings are with maximum DC in winding. Fig. G with leads are rated 1500 v. rms. except *2000, 13000, 12500. Types C2690, C2691 have dual windings; first rating series, second rating parallel.

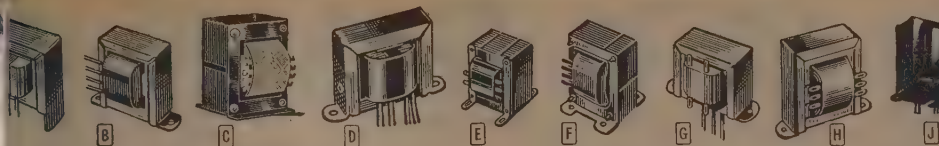
Stock No.	Type	DC Hys.	Ma.	Ohms	Size	Lbs.	EACH
64 G 057	C1001*	C	10.5	110	225	2 3/8 x 3 3/8 x 2 3/8"	2 1/2
64 G 058	C1002*	C	15.0	75	400	2 3/8 x 3 3/8 x 2 3/8"	1 1/2
64 G 055	C1003*	C	16.0	50	800	2 3/8 x 3 3/8 x 2 3/8"	1 1/2
64 G 065	C1080	C	3.5	50	200	1 3/8 x 2 3/8 x 1 3/8"	3/4
64 G 075	C1279	C	8.5	50	400	1 3/8 x 2 3/8 x 1 3/8"	3/4
64 G 067	C1355	E	8.0	75	290	2 1/8 x 2 3/8 x 2 3/8"	1
64 G 063	C14107	A	4.0	175	100	3 3/8 x 2 3/8 x 2 3/8"	2 1/2
64 G 064	C1411*	A	4.5	200	80	3 3/8 x 2 3/8 x 2 3/8"	2 1/2
64 G 455	C1412*	A	4.0	250	60	3 3/8 x 3 3/8 x 2 3/8"	4 1/2
64 G 068	C1420	A	16.0	80	360	3 3/8 x 2 3/8 x 2 3/8"	2 1/2
64 G 465	C1421*	A	7.0	140	165	3 3/8 x 2 3/8 x 2 3/8"	2 1/2
64 G 468	C1515	C	20.0	15	900	1 3/8 x 2 3/8 x 1 3/8"	3/4
64 G 469	C1706	C	4.5	50	300	3 3/8 x 2 3/8 x 1 3/8"	3/4
64 G 051	C1707	C	7.0	50	550	1 3/8 x 2 3/8 x 1 3/8"	3/4
64 G 052	C1708	C	13.0	65	500	2 3/8 x 3 3/8 x 1 3/8"	1
64 G 053	C1709	C	8.0	85	250	2 3/8 x 3 3/8 x 1 3/8"	1
64 G 054	C1710	C	7.0	150	200	2 3/8 x 3 3/8 x 1 3/8"	1
64 G 069	C1721	F	8.5	200	120	3 3/8 x 3 3/8 x 1 3/8"	4 1/2
64 G 456	C1722*	F	8.0	300	80	4 3/8 x 3 3/8 x 1 3/8"	10
64 G 059	C2303*	C	2.5	130	180	2 3/8 x 3 3/8 x 1 3/8"	1 1/2
64 G 060	C2304	C	2.3	150	60	2 3/8 x 3 3/8 x 1 3/8"	1 1/2
64 G 061	C2305	D	5.0	180	300	2 1/8 x 2 3/8 x 2 3/8"	1 1/2
64 G 064	C2308*	A	8.0	300	80	4 3/8 x 3 3/8 x 1 3/8"	7 1/2
64 G 065	C2309	A	8.0	300	80	4 3/8 x 3 3/8 x 1 3/8"	7 1/2
64 G 055	C2325	C	2.0	200	60	3 3/8 x 2 3/8 x 2 3/8"	2 1/2
64 G 520	C2326	C	1.0	300	43	3 3/8 x 2 3/8 x 2 3/8"	1 1/2
64 G 073	C2327	C	1.5	280	85	1 3/8 x 2 3/8 x 1 3/8"	3/4
64 G 458	C2328	C	8	375	25	2 3/8 x 3 3/8 x 2"	1 1/2
64 G 459	C2334	C	2.8	300	60	2 3/8 x 3 3/8 x 2"	2 1/2
61 G 243	C2343	C	7.5	300	32	1 3/8 x 2 3/8 x 1 3/8"	3/4
61 G 242	C2344	C	1.5	10	85	3 3/8 x 2 3/8 x 1 3/8"	3/4
61 G 245	C2345	C	350	5	5600	2 3/8 x 3 3/8 x 1 3/8"	1 1/2
61 G 246	C2346	C	35	15	1800	1 3/8 x 2 3/8 x 1 3/8"	3/4
61 G 238	C26851	G	.035	2A	75	2 3/8 x 2 3/8 x 2 3/8"	2
61 G 239	C26861	G	.025	4A	425	3 3/8 x 3 3/8 x 3 3/8"	3 1/2
61 G 240	C26871	G	.01	15	80	1 3/8 x 2 3/8 x 1 3/8"	3/4
61 G 241	C26881	G	.01	12.5A	11	3 3/8 x 4 3/8 x 3 3/8"	6
61 G 242	C26891	G	.005	22.5A	103	3 3/8 x 4 3/8 x 3 3/8"	12
61 G 137	C2690	J	3.075	1-2A	30-0.75	3 3/8 x 3 3/8 x 3 3/8"	5
61 G 138	C2691	J	08-02	2.5-5A	0.6-0.15	3 3/8 x 3 3/8 x 3 3/8"	10
61 G 139	C2700	C	8	200	30	1 3/8 x 2 3/8 x 1 3/8"	3/4
61 G 140	C2705	A	10	200	150	3 3/8 x 3 3/8 x 3 3/8"	3 1/2
61 G 141	C2706	A	2.6	310	50	3 3/8 x 2 3/8 x 3 3/8"	3 1/2

FIXED-IMPEDANCE OUTPUT TRANSFORMERS

For single-ended or push-pull output stages matching to line or voice coil CT primaries are for push-pull. All are Fig. C except *Fig. A and Fig. H. Type A3330 has 4.5% primary tap.

Stock No.	Mfr's Type	Primary	Sec.	Watts	Mtg. Ctr.	Wt. Lbs.	EACH
64 G 013	A2312	14,000 CT	4	10	2 3/8"	1	2.70
64 G 245	A2313	7,000	8	10	2 3/8"	1	2.50
64 G 033	A3304*	7, 10K CT	500/15/8/4	25	2 1/8 x 1 1/8"	2 1/2	6.30
64 G 144	A3309	5,000	8-4	25	1 3/4"	2 1/2	2.90
64 G 297	A3311*	10K CT	500/15/8/4	4	2 3/8 x 2"	3 1/2	6.00
64 G 296	A3327	25K	4	5	2 3/8"	1	2.20
64 G 244	A3328	4,000	3.5	3	1 3/8"	1 1/2	1.30
64 G 246	A3329	8,000	3.5	3	1 3/8"	1 1/2	1.30
64 G 299	A3330	2K	3.5	5	2 3/8"	1 1/2	1.90
64 G 243	A3332	4,000	3.2	2	1 3/8"	1 1/2	1.10
64 G 295	A3337	5K	6-8	10	2 3/8"	1	2.20
64 G 020	A3800*	5,000 CT	500/250/15	30	2 3/8 x 2"	4	6.70
64 G 021	A3801*	6,600 CT	500/250/15	30	2 3/8 x 2"	4	6.70
64 G 298	A3831	10K CT	8/4/2	35	2 1/8 x 2 3/8"	4 1/2	8.50
64 G 015	A3857	25K CT	8/4/2	5	2 3/8"	2 1/2	2.80
64 G 001	A3876	2,000	4	5	2 3/8"	1 1/2	1.40
64 G 004	A3877	5,000	4	5	2 3/8"	1 1/2	1.40

Stancor Audio and Transistor Transformers



TRANSISTOR TRANSFORMERS

imum primary DC current (for each half of primary if centered). *Type TA-14 has two secondaries, 16 ohms series, 4 ohms parallel. Types TA-15, TA-16 and TA-17 are for 30-watt mobile audio. Types TA-18 to TA-38 are 150-watt miniature audio; TA-39 to TA-47, TA-52 and TA-55, 300-watt. Types TA-48 to TA-51 are auto audio. Types TA-61 and P-8196 are for Motorola hi-fi stereo amplifier. Similar to D on preceding page. **Similar to D on preceding page but threaded mnt. studs. Av. wt., 5 oz. except: TA-13, 1½ lbs.; TA-14, 1½ lbs.; TA-17, 3 lbs.; TA-57 and 60, 1 lb.; TA-61 and 62, 12 oz.; L, 2½ lbs.; P-8196, 4½ lbs.

INPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pr. Imp. Ohms	Sec. Imp. Ohms	MA*	Max. Watts	Size (H.W.D.)	EACH
952	TA-1	D	600 CT	10	20	.05	1½x1½x1½	1.89
857	TA-15	D	50-100	10	50	5mw	1½x1½x1½	1.47
860	TA-18	A	30 CT	50K		.150	2½x1½x1½	3.65
889	TA-23	A	200 CT	200K		.300	1½x1½x1½	3.65
129	TA-55	D	500K	200 CT		.300	½x1½x1½	4.16

OUTPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pr. Imp. Ohms	Sec. Imp. Ohms	MA*	Max. Watts	Size (H.W.D.)	EACH
959	TA-8	D	9800	15	2	.05	1½x2½x1½	4.24
960	TA-9	D	1000	4/8/16	10	.2	¾x1½x¾	4.86
961	TA-10	D	2K CT	4/8/16	2	.2	¾x1½x¾	5.32
962	TA-11	D	48 CT	8/16	275	5	2½x3½x1½	3.65
963	TA-12	D	20 CT	8	500	10	1½x1½x1½	1.89
965	TA-143	A	24 CT	16/40 CT	200	10	4½x4½x3½	10.06
862	TA-20	A	350 CT	4/12		.150	2½x1½x1½	3.65
863	TA-21	A	500 CT	4/8/16		.150	2½x1½x1½	3.65
864	TA-22	A	600 CT	4/8/16		.150	2½x1½x1½	3.65
867	TA-25	A	825 CT	4/8/16		.150	2½x1½x1½	3.65
868	TA-26	A	1250	4/12		.150	2½x1½x1½	3.65
871	TA-29	A	2500	4/16		.150	2½x1½x1½	3.65
875	TA-33	A	10K CT	4/8/16		.150	2½x1½x1½	3.65
879	TA-37	A	400 CT	11		.150	2½x1½x1½	3.65
881	TA-39	A	100 CT	8/16		.300	1½x1½x1½	3.65
883	TA-40	A	160	4/8/16		.300	1½x1½x1½	3.65
884	TA-42	A	500 CT	4/8/16		.300	1½x1½x1½	3.65
885	TA-43	A	700 CT	4/8/16		.300	1½x1½x1½	3.65
886	TA-44	A	2500	4/8/16		.300	1½x1½x1½	3.65
887	TA-45	A	3000	4/8/16		.300	1½x1½x1½	3.65
479	TA-56	H	48 CT	3/2/8/16	10		2½x2½x2½	3.04
130	TA-57	H	100 CT	3/2/8/16	500	10	2½x2½x2½	2.99
132	TA-60	**	125 CT	8	5	1.5	1½x1½x1½	4.11
640	TA-62	D	25	4	400	4	1½x2½x1½	1.83

INTERSTATE TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pr. Imp. Ohms	Sec. Imp. Ohms	MA*	Max. Watts	Size (H.W.D.)	EACH
953	TA-2	D	100 CT	10 CT	100	.25	1½x2½x1½	1.89
954	TA-3	D	100	1K CT	100	.25	1½x2½x1½	1.89
955	TA-4	D	500 CT	5K CT	12	.03	1½x2½x1½	2.48
861	TA-9	A	100 CT	10 CT		.150	2½x1½x1½	3.65
864	TA-22	A	500 CT	80		.150	2½x1½x1½	3.65
866	TA-24	A	500 CT	50K		.150	2½x1½x1½	3.65
867	TA-27	A	1200	20K CT		.150	2½x1½x1½	3.65
870	TA-28	A	1500	500 CT		.150	2½x1½x1½	3.65
872	TA-30	A	5K CT	7500 CT		.150	2½x1½x1½	3.65
873	TA-31	A	5K CT	10K CT		.150	2½x1½x1½	3.65
874	TA-32	A	5K CT	80K CT		.150	2½x1½x1½	3.65
877	TA-34	A	10K	30K		.150	2½x1½x1½	3.65
877	TA-35	A	10K	2K CT		.150	2½x1½x1½	3.65
878	TA-36	A	10K	3K CT		.150	2½x1½x1½	3.65
880	TA-38	A	500 CT	150 CT		.150	2½x1½x1½	3.65
888	TA-46	A	1000	1500 CT		.300	1½x1½x1½	3.65
477	TA-51	B	500 CT	500 CT		.300	1½x1½x1½	2.99
28	TA-53	A	5000	4500		.150	1½x1½x1½	3.16
299	TA-54	A	20000	800 CT		.150	2½x1½x1½	2.89

DRIVER TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pr. Imp. Ohms	Sec. Imp. Ohms	MA*	Max. Watts	Size (H.W.D.)	EACH
956	TA-5	D	1000	200 CT	10	.05	¾x1½x½	4.70
957	TA-6	D	2000	200 CT	5	.05	¾x1½x½	5.32
958	TA-7	D	100	100 CT	100	5	1½x2½x1½	1.89
964	TA-13	D*	200 CT	400	10	1	3x2½x1½x2½	4.02
858	TA-16	D	20	36 CT	400	1	1½x2½x1½	1.70
131	TA-58	D	100	200 CT	200	5	1½x2½x1½	2.13
478	TA-61	B	500 CT	200 CT		.300	1½x2½x1½	2.37
641	TA-62	B	1:1 ratio	Sec. Pri to 2-Secs.			1½x2½x1½	2.55

MODULATION TRANSFORMER

Stock No.	Mfr's Type	Fig.	Pr. Imp. Ohms	Sec. Imp. Ohms	MA*	Max. Watts	Size (H.W.D.)	EACH
859	TA-17	J	8CT	7.5K/5K/120	35		3½x3½x2½	6.36

TYPE P-8195 TRANSISTOR INVERTER TRANSFORMER

12C. For 280 v. DC @ 150 ma fixed (117 v. 60 cycle AC), or mobile DC (2C) transistorized power supply. Schematic included. Also has secondary for 12.6 v. AC @ 3 amps when used with 117 v. primary only. Cg. ctrs. 2½x2½". Height, 3½". 6 lbs.

FILAMENT TRANSFORMERS

Single-secondary filament transformers. All are center-tapped except Type P6469 and Type P8190. Type P8191 designed for filament isolation, has 6.3 v. primary and secondary. All others, 117 v., 60 cycle, AC.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Insul.	Mtg. Ctrs.	Wt. Lbs.	EACH
64 G 261	P6133	B	2.5	5.0	7500	2½"	1½	3.72
64 G 301	P3060	E	2.5	10.0	10KV	2¼x1½"	2½	6.59
64 G 142	P6467	D	5.0	3.0	2500	2½"	1½	3.14
64 G 255	P3062	E	5.0	6.0	2500	2x2"	2¼	5.04
61 G 235	P6433	E	5 CT	15	2500	2x2¼"	3	7.01
61 G 234	P6432	E	5 CT	21	2500	2¼x2½"	4½	8.16
64 G 388	P6492	J	5.0	30.0	3500	3x3"	7	10.72
61 G 134	P6464	D	6.3CT	10	2000	2x2¼"	4½	6.80
64 G 387	P6465	D	6.3	6	1500	2x2"	2½	1.94
64 G 308	P6134	D	6.3	12	3000	2½"	1	2.06
64 G 389	P8190	D	6.3	1.2	5000	2x1½"	2	2.70
64 G 585	P8191	D	6.3	1.2	5000	2½"	1	2.91
61 G 230	P6428	J	6.3	175	2500	2¼x1½"	3	6.08
64 G 263	P6463	J	6.3	3.0	2500	2½"	1½	3.32
61 G 232	P6430	J	6.3CT	3.0	2500	2x1½"	2	4.58
64 G 332	P8014	E	6.3	3.0	2500	2½x2½"	4½	8.26
61 G 231	P6429	J	6.3	3.5	2500	2½x2½"	4½	4.94
64 G 256	P6419	J	6.3	4.0	2500	2½x2½"	3½	6.49
64 G 264	P6489	J	6.3	6.0	2500	2½x2½"	3½	6.49
64 G 312	P3064	E	6.3	6.0	2500	2x2"	2½	5.31
64 G 313	P6308	F	6.3CT	6.0	2500	2½x2½"	4½	8.17
64 G 265	P6309	F	6.3	10.0	2500	2½x2½"	6½	6.46
64 G 314	E5015	E	7.5	4.0	2500	2x2½"	3	4.65
64 G 318	E5016	E	7.5	4.0	2500	2½x2½"	3½	7.35
64 G 319	P6139	F	10.0	8.0	2500	2½x2½"	5½	7.66
64 G 252	P6407	J	10.0	8.0	2500	2½x2½"	5½	7.66
64 G 148	P8130	D	12.6	2.0	1500	2½"	1½	3.36
64 G 267	P6469	D	25.2	1.0	1500	2½"	1½	3.20
61 G 200	P6456	D	6.3T	6.0	2000	3½"	2	3.74

LINE-TO-VOICE-COIL TRANSFORMERS

For matching speakers to lines. Type A3837 is autotransformer for matching parallel speakers to line. Transformers for constant voltage lines are 140 volt., \$70.71 volt.; and \$25 volt. *Power taps in watts when connected to appropriate line.

Stock No.	Mfr's Type	Fig.	Primary Imp.	Secondary Imp.	Watts	Mtg. Ctrs.	Wt. Lbs.	EACH
64 G 087	A3818	H	1500/1000/500	15/8/4	25	3½"	2½	4.82
64 G 088	A3837	H	500/1000	06 to 8, 12 to 16, 18 to 24, 24 to 32	25	3½"	2½	4.82
64 G 089	A3833	H	2500/3000	30 to 40, 36 to 48	15	2½"	1½	3.93
64 G 085	A7947	H	2000/1500/1000/500	15/8/6/4	25	2½"	3	3.38
64 G 086	A7949	H	2000/1500/1000/500	6-8/3.2	8	2½"	¾	2.87
61 G 296	A8080*	H	5/4/2/3/2†	6-8/3.2	12	2½"	1½	3.37
61 G 297	A8081*	H	10/9/8/7/6†	8/16	5	2"	¾	2.85
61 G 298	A8082*	H	15/14/13/12/11†	8/16	10	2"	¾	3.10
61 G 643	A8083*	D	2/1/1/5†	8/16	15	2½"	1½	3.59
61 G 644	A8087*	D	2/1/1/5†	8	2	2"	¾	2.45
61 G 202	A8096*	H	8/4/2/1/0.5†	4/8/16	2	2"	¾	2.45
61 G 645	A8099*	D	2/1/1/5†	4/8	2	1½"	¾	3.53
64 G 089	A8101	G	8/4/2/1/1	3/2/6-8	5	2"	¾	2.45
64 G 091	A8102*	H	8/4/2/1/1	4/8/16	8	2"	¾	3.43
64 G 092	A8103*	H	15/14/13/12/11†	4/8/16	16	2½"	1½	4.85
64 G 099	A8104	H	3000/2000/1500/1000/500	16/8/4	10	2½"	1½	3.99
64 G 889	A8105*	G	5/2/5/1/2/5†	4/8	10	2½"	1½	4.85
64 G 890	A8106*	H	8/4/2/1/1	4/8/16	5	2"	¾	2.78
64 G 891	A8107*	H	16/8/4/2/1†	4/8/16	8	2"	¾	2.94
61 G 646	A8109*	D	2/1/1/5†	4/8	2	1½"	¾	2.45

POWER TRANSFORMERS—117-V. AC PRIMARY

Av. shpg. wt., 2½ lbs.

Stock No.	Type	Fig.	Description	Size	EACH
63 G 966	TP-1	J	2 Secs. each 30 18 v. AC, 900 ma. DC For bridge rects.	3x3x2½"	4.86
61 G 642	P-8196	J	Sec. 60 VCT, 1.2 A. @ 45 v. DC	3½x2½x3½"	6.42

CONTROL TRANSFORMERS

Fig. H, except *Fig. C, 2-section secondary for series or parallel operation. Pri. operation from either 115 or 230 v., 50-60 cycle AC.

Stock No.	Mfr's Type	Secondary	Size	Mtg. Ctrs.	Wt. Lbs.	EACH
63 G 276	P6375	6V@2A	12V@1A	2½"	1	3.27
63 G 277	P6376	6V@4A	12V@2A	3½x3½x2½"	1½	3.71
63 G 278	P6377	24V@2A	24V@1A	3½x3½x2½"	2½	4.69
63 G 279	P6378*	12V@8A	24V@4A	3½x2½x3"	4½	7.57
63 G 280	P6379*	12V@16A	24V@8A	3½x2½x3"	8	13.06

Stancor TV, Air Conditioner, Scope Transformers



EXACT-REPLACEMENT TV HORIZONTAL OUTPUT TRANSFORMERS

Top-quality replacement flyback transformers for standard TV receivers. Every transformer faithfully duplicates the electrical and physical characteristics of the original unit. Manufacturer's own specifications are used; performance is

identical in every respect. No alterations are required in the existing circuit or chassis. Constructed of high-quality materials. *For 7171 except where 6CD6 horizontal output tube is used. Av. wt., 1 lb.



ADMIRAL

Stock No.	Type	Orig. Mfr's Part No.	E.A.
64 G 210	A-8128	79C23-3, 79C28-1	6.88
64 G 211	A-8133	79C30-1/-3, 79C31-1	9.89
64 G 551	A-8134	79C30-2/-4, 79C38-1, 79D38-1	8.96
64 G 213	A-8254	79C60-1	5.59
64 G 214	A-8255	79C60-2/-3	6.49
64 G 460	HO-265	79C70-1	5.83
64 G 272	A-8135	79D41-1/-2	7.44
64 G 212	A-8253	79D48-1	7.35
64 G 459	A-8292	79D63-1	7.06
61 G 204	HO-301	79D65-2/-4	7.17
61 G 205	HO-304	79D77-2	7.79
63 G 290	HO-317	79B77-6, 79E77-6	5.31
63 G 291	HO-318	79B77-7, 79D77-7/-22, 79E77-7	5.31
63 G 292	HO-319	79D83-1/-2	6.54
64 G 491	HO-350	79D83-4-5/7/8/10	6.75
64 G 492	HO-351	79E77-11/14/15	6.00

CBS-COLUMBIA

64 G 331	A-8230	10104/07/08/10/35	7.35
64 G 332	A-8231	10136B/37/38/59	7.35
64 G 463	A-8283	12000841/51	6.92
63 G 464	A-8284	12001051/91	6.53

CROSLEY

64 G 222	A-8241	1547820	6.36
64 G 223	A-8248	154860/-1, 154 990 2/3	9.37
64 G 208	A-8263	158481-1/-2/-5	7.57

EMERSON

64 G 221	A-8131	738047/48/53	5.87
64 G 268	A-8138	738079/84	6.53
64 G 333	A-8232	738067/68/69/73/74/75/82	7.35
61 G 206	HO-294	738103/109	6.53
61 G 207	HO-295	738106/107/111	7.32
61 G 208	HO-296	738119/122/128/129/140	7.50
61 G 249	HO-311	738153	5.15

GENERAL ELECTRIC

64 G 546	A-8130A	7711	7.17
64 G 277	A-8262	RTO-131/141/-143-3	6.91
63 G 466	A-8288	RTO-149/1	6.17
63 G 467	A-8289	RTO-151/3	6.31
63 G 471	A-8290	RTO-166/5	6.05
63 G 468	HO-252	RTO-163	6.47
63 G 469	HO-253	RTO-175/87	6.47
64 G 470	HO-254	RTO-179/88	6.47
61 G 210	HO-299	RTO-203	7.06

HOFFMAN

61 G 211	A-8171	5035	7.00
61 G 212	HO-285	5158-A	6.64
63 G 976	HO-287	5144/45/46/48/49/55	7.18

MAGNAVOX

63 G 472	A-8293	360593-2, 360552-1/2-2A, 360577-1/-1	7.60
63 G 473	A-8294	360606/-1	7.06
63 G 474	A-8295	360614-1, 360623-1	7.06
61 G 253	HO-331	320055-1/61-1/-3	7.10
61 G 254	HO-332	360580-1/604-1	6.38
61 G 255	HO-333	360700-1/-2	5.74
61 G 257	HO-335	360739-1/779-1	6.61

MOTOROLA

64 G 325	A-8224	24C711265/A, 24C721290, 24C7292753, 24K701009	9.11
64 G 326	A-8225	24K712193	9.11
64 G 327	A-8226	24K721301/C, 24K721517/C	9.11
63 G 971	HO-280	24K739284	8.28
63 G 972	HO-281	24K739092/03/04	8.82
63 G 973	HO-282	24C736699	8.37
61 G 213	HO-293	24C736488	8.57
61 G 217	HO-336	24C739283	6.43
61 G 636	HO-341	Coil only	2.59
61 G 637	HO-342	24C740099/742676	6.94
61 G 638	HO-343	24C744042	7.06
61 G 639	HO-344	24K748397/754273-Z	6.59

MUNTZ

64 G 281	A-8129	TO-0024	7.17
64 G 559	A-8132	TO-0031	8.82
64 G 283	A-8240	TO-0036	7.06
63 G 436	A-8291	TO-0039	7.06
64 G 278	A-8261	C9, 253-1/-1/2-E	6.63

PHILCO

63 G 438	HO-277	32-8465-2, 32-8509/-2	9.41
64 G 323	A-8222	32-8533/34	7.42
64 G 321	A-8220	32-8565	8.22
63 G 437	HO-276	32-8624/-1	8.47
64 G 485	HO-345	32-8855-1/-2/5	7.20
64 G 486	HO-346	32-8810-1/2/3	7.06
64 G 487	HO-349	32-8993-3	6.00

PHILHARMONIC

64 G 573	A-8136	80-263/-265/-2	7.37
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RCA

64 G 783	A-8119	21T15	7.00
64 G 784	A-8127	21T11/T3	6.88
63 G 969	A-8252	225T1	6.53
63 G 441	A-8256	235T1	6.47
64 G 789	A-8235	75519, 75585, 76381	5.38
64 G 787	A-8233	76540, 76795	7.35
64 G 788	A-8234	76501	6.61
64 G 221	A-8131	74951	5.87
61 G 214	HO-289	104236, 972440-3	6.24
61 G 215	HO-300	104481, 973432-1	6.05
64 G 786	A-8244	78201, 78810	6.61
63 G 442	HO-272	972914-1, 103092	6.53

RCA (Con'd)

61 G 258	HO-320	10389 (50-94292-1)	5.61
61 G 259	HO-321	104876 (972942-1)	7.11
61 G 260	HO-322	106063 (972-942-2)	7.11
		104309 (972401-3)	7.11
		106533 (973908-1)	7.11

SILVERTONE

64 G 331	A-8230	10104/07/08/10/35	7.35
64 G 332	A-8231	10136B/37/38/59	7.35
63 G 969	A-8282	N24983	6.92
61 G 216	HO-274	T80-326/336	6.37
61 G 261	HO-337	T80-368/390/411	4.63
64 G 493	HO-353	80-1-3/O, 80-3-3/F, 80-4-3/F, 80-6-3/B, 80-11-3B/F/H/S	6.61
64 G 494	HO-354	80-8-3 9 3	6.91
64 G 495	HO-355	80-12-3	6.91
64 G 496	HO-356	80-10-3, 80-15-3	7.21
64 G 497	HO-358	80-19-3	6.91

SPARTAN

63 G 974	HO-284	PC-70010/6, 12/F	7.06
61 G 262	HO-327	PC-70015	6.91
61 G 263	HO-328	PC-70019	7.06
61 G 264	HO-329	PC-70025, 70022	6.91
61 G 265	HO-330	PC-70036	6.91

SYLVANIA

64 G 328	A-8227	241-0003	5.55
64 G 329	A-8228	241-0005/-0006	5.55
64 G 330	A-8229	241-0007	5.55
63 G 443	HO-259	241-0011	6.42
61 G 258	HO-320	241-0046	5.61

TRAVLER

61 G 266	HO-323	TR-24	6.91
61 G 267	HO-324	TR-27	6.91
61 G 268	HO-325	TR-28	6.91

WESTINGHOUSE

64 G 285	A-8237	V9904-17-2, V10213-1	6.61
64 G 286	A-8238	V-10214-1, V-9904-2	6.61
		V-10204-1	6.61
64 G 284	A-8236	V-11548-1/-2/-3/-4	7.71

ZENITH

64 G 287	A-8267	S-15911/12, 16566, 171330-40, 17233, S-17425-265/435, S-17424-67/811, S-17927, 20908	7.06
64 G 288	A-8268	S-15015/202/709, S-15710, 16006, S-16919/204, S-17444/699/X, S-20866	7.06
64 G 289	A-8269	S-18487/537/802	7.06
64 G 290	A-8270	S-18687/990, S-19728	7.06
64 G 291	A-8271	S-19032/71	6.51
63 G 444	HO-270	S-19125	5.81
63 G 445	HO-271	S-22451, S-23438	5.81
61 G 217	A-8276	S-22154	5.55

REPLACEMENT TV POWER TRANSFORMERS

Supply high voltage transformers for replacement use in standard TV receivers. All have primary windings for 117 v., 60 cycle AC except Type P-5059, which has 117/107 v. primary. Types P-8166, P-8169 and P-8170 have 3-6.3 v. filament windings. 2 of windings can be series-connected for 12 v. CT. Types P-8169 and P-8356 are similar to Fig. D on opposite page. *With copper shorting band to reduce external magnetic field.



Stock No.	Mfr's Type	Plate	Rect. Fil.	Other Filaments	Overall Size	Shpg. Wt.	EACH
63 G 429	P-5059	Volts DC Ma	Volts Amps	Volts Amps			
63 G 430	P-6115	720 275	5	6.3 CT 7.0	4 1/2 x 3 1/2 x 4 1/2	9 1/2 lbs.	13.06
63 G 476	P-8159*	720 290	5	5/6-3/6.3 2/8/6	4 1/2 x 3 1/2 x 4 1/2	10 lbs.	17.99
64 G 577	P-8160	720 185	5	3 6.45 12	4 1/2 x 3 1/2 x 4 1/2	10 lbs.	16.23
64 G 578	P-8164*	600 225	5	3 6.3 9.0	4 1/2 x 3 1/2 x 4 1/2	7 1/2 lbs.	15.88
64 G 580	P-8166*	680 330	5	3 6.3/6.3/6.3 5/5/5/0/5.0	6 x 3 1/2 x 4 1/2	13 lbs.	19.30
63 G 458	P-8167*	560 400	5	3 6.3/6.3 6.5/8.5	6 x 3 1/2 x 4 1/2	13 lbs.	19.73
63 G 459	P-8169*	760 220	5	3 6.3/6.3/6.3 12.5/7	4 1/2 x 3 1/2 x 4 1/2	10 1/2 lbs.	16.31
63 G 431	P-8170*	760 220	5	3 6.3/6.3/6.3 12.5/7	4 1/2 x 3 1/2 x 4 1/2	10 1/2 lbs.	16.31
64 G 599	P-8171*	750 225	5	3 6.3/6.3 20/9.0	5 x 3 1/2 x 4 1/2	10 1/2 lbs.	17.64
63 G 449	P-8172	540 200	5	3 6.3 8.5	4 1/2 x 3 1/2 x 3 1/2	7 lbs.	13.85
64 G 613	P-8351*	620 240	5	3 6.3/6.3 6.4/3	4 1/2 x 3 1/2 x 4 1/2	9 lbs.	14.12
64 G 614	P-8333*	590 225	5	3 6.3/6.3 11/4/9	4 1/2 x 3 1/2 x 4 1/2	10 lbs.	14.93
64 G 616	P-8334*	550 305	5	3 6.3/6.3 8.5/12	5 1/2 x 3 1/2 x 4 1/2	13 lbs.	16.50
64 G 617	P-8335*	600 325	5	3 6.3/6.3 8.8/15	5 1/2 x 3 1/2 x 4 1/2	13 lbs.	17.00
64 G 619	P-8337	630 225	5	3 6.3 8.25	4 1/2 x 3 1/2 x 4 1/2	8 1/2 lbs.	14.09
64 G 621	P-8339	650 255	5	3 12.6 CT 5.25	4 1/2 x 3 1/2 x 4 1/2	8 1/2 lbs.	13.93
64 G 622	P-8340*	710 270	5	3 6.3/6.3/6.3 5.5/1.65/2.42	5 1/2 x 3 1/2 x 4 1/2	12 lbs.	18.40
64 G 624	P-8342*	710 260	5	3 6.3/6.3 8.85/1.2	5 1/2 x 3 1/2 x 4 1/2	13 lbs.	17.57
63 G 428	P-8352*	580 240	5	3 12.5 CT 9.5	4 1/2 x 3 1/2 x 4 1/2	8 1/2 lbs.	13.51
63 G 272	P-8355*	700 250	5	3 6.3 9.5	3 1/2 x 3 1/2 x 3 1/2	6 1/2 lbs.	11.59
63 G 273	P-8356*	540 260	5	3 6.3 8.8	3 1/2 x 3 1/2 x 3 1/2	6 1/2 lbs.	10.95

AIR CONDITIONER AUTOFORMERS

Type	PSU-200
For home conditions, and other conventional 1-hp motors (1/2 to 1 hp).	Convert 208-v. unit to 230-v. unit. 1 1/2 in. Overhang. 230-v. unit to 208-v. line is done by simple change inside outlet box. With line cord std. 250-v. polarized plug, and receptacle Rated at 2.3 kVA. Size, 3 1/2 x 4 1/2 x 3 1/2. Wt. 9 lbs.
63 G 967	EACH 16.3

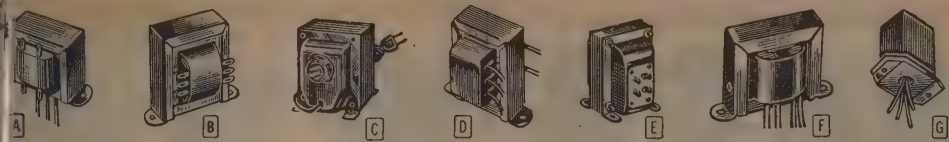
Type PSU-3000. Similar, for larger conditions. Will drive 1 to 2-hp motors or 1 to 2 ton units. Converts 208-v. unit to 230, or 230-v. unit to 208. 4x6x4 1/2. 10 lbs.

63 G 968

OSCILLOSCOPE TRANSFORMER

Type	P-8178
Power transformer for oscilloscopes, CRT applications, and other conventional half-wave supplies. Primary 1 v., 60 cycles. Plate, 1800 v. A at 2 ma D.C. Rectifier filament 230 v. 0.1 A. Overhang 1 1/2 in. winding, 6.3 v. at 0.6 amp. tapped at 2.5 v., 2 amp. Size, 3 1/2 x 3 1/2 x 3 1/2. Mfr. Cts., 2V	
27 1/2" Shpg. wt., 5 lbs.	
63 G 274	EACH 9.0

Selected Stancor Replacement Transformers



ISOLATION TRANSFORMERS

e transformerless (AC-DC) radio and TV sets from AC linearity tapped for 105/115/125 v.; 115-v. secondary with std. t. Has 115-v. primary and tapped secondary with 3 std. out. or 105/115/125 v. and electrostatic shield grounded to core. v. secondary; std. out. With line cord and plug.

Stk. No.	Type	Fig.	Watts	Size	Lbs.	EACH
449	P-6410†	C	50	3½x2½x1¾	4	7.77
443	P-6160*	C	100	4¼x4¾x1¾	7	14.19
475	P-6371‡	E	175	5½x4½x1¾	9	18.95
444	P-6415†	C	350	5¾x4½x1¾	17	23.05
GU 448	P-6298*	C	500	7½x6½x1¾	28	42.27

UNIVERSAL OUTPUT TRANSFORMERS

acement units for radio and television and other audio appliances. Multi-tapped windings match various types of output sets and circuits such as single-ended and push-pull plates to voice or line. All are Fig. A except *Fig. B. All secondaries match coil except †500 ohms; ‡500, 333, 200, 125, 50 ohms. Wt., 1½ lbs.

Stk. No.	Mfr's Type	Primary	Watts	Size	EACH
G 294	A3250†	5K; 10, 20K CT	(15ma)	2x3¼x1¾	4.11
G 005	A3822	7-10K	4	1½x2½x1¾	1.91
G 026	A3823	4-14K CT	8	1½x2½x1½	3.30
G 242	A3824	6-10K CT	8	2x3¼x2"	3.23
G 002	A3825	1.5-4.5K	8	2x3¼x1¾	2.58
G 028	A3830*	3-10K CT	20	2½x3½x2¼	4.41
G 293	A3841**	2.5, 4, 5, 6, 7K	10	2½x3½x2¼	4.90
G 023	A3849	1.5-10K	10	1½x2½x1½	3.30
G 024	A3850*	4-14K CT	8	2x3¼x1½	3.25
G 027	A3852*	4-14K CT	18	2½x2½x2"	3.99
G 025	A3856	4-14K CT	4	1½x2½x1¾	2.84
G 292	A3880	4-14K CT	15	2½x3¾x2¼	4.30

TV DEFLECTION YOKES

70° deflection picture tubes, except †for 50°; ‡90°. †All have ferrite cores and cosine-wound windings anti-astigmatic focusing. Most have networks and a-long leads. Av. shpg. wt., 1½ lbs.



Stk. No.	Type	Horizontal	Vertical	E.A.
G 538	DV-1A‡	8.3 mh, 13.5 ohms	50 mh, 66 ohms	7.54
G 595	DV-2A	10.3 mh, 14.5 ohms	50 mh, 66 ohms	7.22
G 539	DV-8A	8.5 mh, 14.5 ohms	50 mh, 52.5 ohms	7.22
G 590	DV-9A	13.5 mh, 17.5 ohms	50 mh, 53.5 ohms	8.40
G 589	DV-10A	30.0 mh, 45 ohms	3.5 mh, 3.5 ohms	7.22
G 596	DV-11A	20 mh, 31 ohms	50 mh, 50 ohms	8.89
G 597	DV-12A	30 mh, 41 ohms	50 mh, 50 ohms	8.01
G 481	DV-13A†	12.5 mh, 15 ohms	48 mh, 52 ohms	10.17
G 370	DV-14A	30 mh, 45 ohms	3.5 mh, 3.5 ohms	7.59
G 371	DV-15A	25 mh, 35 ohms	40 mh, 50 ohms	7.88
G 482	DV-16A†	20 mh, 26 ohms	44 mh, 45 ohms	9.17
G 487	DV-21A	14.5 mh, 10 ohms	3.1 mh, 3.5 ohms	7.44
G 489	DV-23A†	20 mh, 27 ohms	45 mh, 43 ohms	8.53
G 496	DV-25A†	24 mh, 46 ohms	11 mh, 11 ohms	7.59
G 498	DV-27A†	17.5 mh, 35.5 ohms	12.3 mh, 13.5 ohms	10.24
G 271	DV-28A	24 mh, 36 ohms	3.2 mh, 3.4 ohms	6.91
G 272	DV-29A	24 mh, 36 ohms	3.2 mh, 3.4 ohms	7.01
G 273	DV-30A	24 mh, 36 ohms	3.2 mh, 3.4 ohms	7.25
G 274	DV-31A†	24 mh, 44.2 ohms	42 mh, 42 ohms	8.53
G 275	DV-32A†	24 mh, 34 ohms	42 mh, 42 ohms	8.65
G 276	DV-33A†	30.5 mh, 34 ohms	43 mh, 50 ohms	6.86
G 277	DV-34A†	30 mh, 45 ohms	47 mh, 42 ohms	7.35
G 278	DV-35A†	20 mh, 28 ohms	45 mh, 45 ohms	6.89
G 279	DV-36A†	24 mh, 43 ohms	40 mh, 37 ohms	8.08
G 280	DV-37A†	20 mh, 28 ohms	45 mh, 45 ohms	8.13
G 281	DV-38A†	20 mh, 38 ohms	34.4 mh, 34 ohms	8.78
G 282	DV-39A†	13 mh, 22 ohms	40 mh, 41 ohms	7.94
G 283	DV-40A†	12 mh, 17 ohms	40 mh, 39 ohms	9.70
G 284	DV-41A	13.3 mh, 20 ohms	41 mh, 54 ohms	8.64
G 285	DV-42A†	30.4 mh, 47.2 ohms	34 mh, 34 ohms	8.54
G 286	DV-43A†	24 mh, 31 ohms	3.3 mh, 3.0 ohms	11.04
G 287	DV-44A†	18.5 mh, 33 ohms	34 mh, 34 ohms	8.82
G 288	DV-45A†	18.6 mh, 35 ohms	14.8 mh, 13.8 ohms	12.97
G 120	DV-47A	8.2 mh, 19.7 ohms	41 mh, 72 ohms	8.00
G 121	DV-48A	14 mh, 33 ohms	29 mh, 60 ohms	6.76
G 122	DV-49A	44 mh, 110 ohms	38 mh, 80 ohms	8.41
G 123	DV-50A	12 mh, 28 ohms	33 mh, 83 ohms	9.29

INTERCOM AND TRANSCEIVER TRANSFORMERS

Types A-8090 and A-8091 have solder-lug secondary connections. Type A-3817 modulation and output autotransformer is especially designed for Citizens Band equipment. Type A-3833 is for mike input or plate to grid. Maximum watts: *3 w., ‡5 w., †8 w., †10 w. Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Fig.	Use	Imp.		Size (Inches)	E.A.
				Pri.	Sec.		
61 G 236	A-3817†	G	Transceiver	5000	6750.4	1½x2½x1½	2.94
64 G 030	A-4744	D	V.C. to grid 4	25K	3.4-6.8	1½x2½x1½	1.98
64 G 489	A-8090*	A	Line to VC	45-50	3.4-6.8	1½x2½x1½	1.73
64 G 490	A-8091†	A	Line to VC	45-50	3.4-6.8	1½x2½x1½	2.06
64 G 031	A-3833‡	G	Transceiver	200/5K	60K	1½x2½x1½	2.81
64 G 148	A-4749	H	Tele. Patch	10K	500	1½x1½x2¼	4.75

"POLY-PEDANCE" MODULATION TRANSFORMERS

Match Class "B" modulators to Class "C" load impedances in Amateur and commercial transmitters. Multi-tapped primaries and secondaries match loads from 2000 to 20,000 ohms.

Stock No.	Mfr's Type	Max. DC		Watts	Size	Wt., Lbs.	E.A.
		Pri.	Sec.				
64 G 478	A-3893	180 ma	180 ma	60	4x3 1/4 x 4 1/8"	7	12.90
64 G 488	A-3894	225 ma	225 ma	125	4 3/8 x 4 3/8 x 5"	10	16.25

TUBE-CHECKER FILAMENT TRANSFORMER

A Type P-1834-3. Multiple-secondary transformer. Pri.: 125/115/105 v., 60 cycles. Secondary output volts: 1.1/1.4/1.5/2.0/2.5/3.0/3.3/4.0/5.0/6.3/7.0/7.5/12/20/25/30/35/50/70/85/110/117. Mtg. ctrs. 3½". Size, 2½x4x2½". Shpg. wt., 2½ lbs.

64 G 139.....EACH 9.92

MICROPHONE TRANSFORMERS

A4350 is for mike-to-line or line-to-line. A4351 is for mike or line to single grid. A4352 is for mike or line to push-pull grids. A4705 is for single-button mike to single grid. All but A4705 have dual primaries. *Center-tapped. †Same as primary impedance.

Stock No.	Type	Fig.	Pri. Ohms	Sec. Ohms	Mtg. Ctrs.	Lbs.	E.A.
64 G 094	A4350 A		500*/333/200*/125/50	+ 2½"		1	4.24
64 G 097	A4351 H		500*/333/200*/125/50/89,000	2½x1½"		1½	4.54
64 G 093	A4352 A		500*/333/200*/125/50/89,000	2½"		1	4.70
64 G 096	A4705		200/70	80,000/2"		½	2.91

VERTICAL DEFLECTION OUTPUT TRANSFORMERS

All are isolation transformer types except autotransformer type and can be used either way. *Copper shield. Av. shpg. wt., 2 lbs.

Stock No.	Mfr's Type	Fig.	Pri. Ohms	Sec. Ohms	Size	EACH
64 G 522	A-8112	G	1300	10	2x3¼x1¾	2.94
64 G 523	A-8113	G	700	12	2x3¼x1¾	3.09
64 G 502	A-8115	D	600	7	3½x2½x2½	5.24
64 G 547	A-8123†	G	1200	11	2x3¼x1¾	2.91
64 G 554	A-8140	D	400	0.3	2½x2½x3½	5.23
64 G 557	A-8141†	G	1650	4.5	2½x3¾x2½	4.17
61 G 289	A-8142	.....	540	10.5	2½x3¾x2½	5.04
61 G 290	A-8145	.....	540	14	2½x2½x2½	4.20
61 G 291	A-8146	G	375	10	2x3¼x1¾	2.97
64 G 473	A-8148†	G	375	6.5	2x1½x3¼	3.37
63 G 977	VO-103*	G	530	5.5	2½x2½x3¼	4.11
61 G 292	VO-108	G	350	10.3	2x2x3¼	2.84
61 G 293	VO-109†	A	1150	12	2x2x3¼	5.41
61 G 124	VO-110	G	1670	7.0	2x3¼x2"	2.82
61 G 125	VO-111	G	1425	7.5	2x3¼x2"	3.25
61 G 294	VO-112	G	384	3.5	2½x2½x3¾	3.36
61 G 295	VO-113	.....	1435	19.7	2½x2½x1¾	2.73
61 G 126	VO-114	G	250	6	2½x1½x3¼	2.82
64 G 499	VO-115†	.....	360	2.4	2½x2½x1¾	3.57

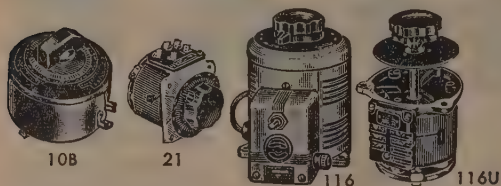
VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

Primary to secondary ratios permit operation in conventional vertical oscillators. *Copper shielded coil and core. Av. wt., ½ lb.

Stock No.	Type	Fig.	Pri.: Sec. Ratio	Size	EACH
64 G 501	A-8111 A	A	1:4.2	1½x2½x1½	1.94
64 G 504	A-8121 H	A	1:4.2	1½x2½x1½	2.59
64 G 543	A-8122	.....	1:4.2	1½x1½x1½	3.83
64 G 558	A-8125 A	A	1:4.2	2½x1½x1¾	1.89
64 G 471	A-8126*	.....	1:1.5	1½x1½x2"	1.94
61 G 218	VBO-201*	A	1:3.33	1½x2½x1¾	2.06

Selected Variable and Fixed-Voltage Transformers

SUPERIOR VARIABLE AUTOTRANSFORMERS



A host of applications for these famous "Powerstat" variable transformers—fine for radio/TV sets, hi-fi equipment. Amateur gear, light dimming, motor speed control, hobby kits, etc. Especially suitable for boosting or reducing AC line voltage in areas where it is consistently low or high. All have excellent regulation, high efficiency, conservative ratings, zero waveform distortion and rugged construction. Max. current ratings apply over full output-voltage range. Toroidal core with rotating brush tap delivers continuously adjustable voltage from zero to above input voltage. Types 10B, 21 and 116U have "L" terminal which allows connecting in the field to limit output to applied voltage. Mountings: P indicates behind-panel mounting; U, general utility. All are for 110-120 v., 50-60 cycle AC except *60 cycles only. Sizes: Types 10B, 21 and 116U, distance back of panel and diameter; type 116, overall height and diameter. Type 116 has on-off switch, line cord and plug, fuse, and standard AC output receptacle.

Stock No.	Mfr's Type	Output			Mtg.	Size	Wt. Lbs.	EACH
		Volts	Amps	KVA				
62 G 536	10B*	0-132	1.75	0.165	P	2 1/4 x 2 1/4 x 2 1/4	2 1/2	8.50
61 G 163	21	0-140	3.75	0.53	P	3 1/4 x 3 1/4 x 3 1/4	6 1/2	12.50
62 G 525	116	0-140	7.5	1.0	U	6 1/2 x 4 1/2 x 4 1/2	12	24.00
62 G 524	116U	0-140	7.5	1.0	P	5 x 4 1/2 x 5	11	18.00

STANDARD ELECTRIC AUTOTRANSFORMERS



zero waveform distortion, and excellent regulation. Both types are for back-of-panel mtg; 100BU for panels up to 1/4" thick and 300BU for panels up to 1/2" thick. For 110-120 v., 50-60 cycle AC.

Stock No.	Mfr's Type	Output			Size	Wt. Lbs.	EACH
		Volts	Amps	KVA			
62 G 583	100BU	0-132	1.25	.165	2 3/4 x 2 1/4 x 2 1/4	2	8.25
62 G 580	300BU	0-140	3.0	.400	3 1/4 x 3 1/4 x 3 1/4	6	12.50

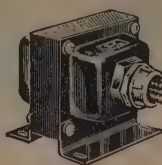
DYNACO SUPER-FIDELITY TRANSFORMERS



Outstanding line of hi-fi output transformers for the most discriminating hi-fi builder. Feature para-coupled windings which provide an accurately balanced coil with tight coupling between sections. The resulting low distortion offers greater definition of audio detail and contributes to the performance of any amplifier. Designed for substantial reserve of power-handling capacity to permit full, undistorted power output at the extremes of the audio spectrum as well as in the midrange. Para-coupled arrangement reduces middle and high-frequency distortion, while a massive core of thin-gauge grain-oriented steel provides distortionless transmission of high-level, low-frequency signal components. Critical balancing of output tubes is virtually eliminated. Windings are sealed in steel cans with high-temperature potting compound. A-440 has tertiary winding with taps for either screen or cathode connection; all others have screen taps on primary, 8 and 16-ohm secondaries except *4, 8, 16 ohms; 7, 4, 8, 16 ohms and 70.7 v.

Stock No.	Mfr's Type	Pri. Ohms	Output Watts at		Size HWD	Wt. Lbs.	EACH
			30 to 15,000 cps	20 to 20,000 cps			
61 G 981	A-410	8000	30	15	3 3/4 x 3 1/2 x 2 1/8	5	14.95
61 G 982	A-420	6600	60	30	4 1/2 x 3 1/2 x 3 3/4	7	19.95
61 G 983	A-430	4300	120	60	5 1/2 x 4 x 4	14	29.95
61 G 984	A-431*	4300	120	60	5 1/2 x 4 x 4	14	34.95
61 G 985	A-431-70†	4300	120	60	5 1/2 x 4 x 4	14	39.95
61 GU 986	A-440	4300	240	120	6 x 4 3/4 x 5 7/8	24	39.95
61 GU 987	A-450	2200	240	120	6 x 4 3/4 x 5 7/8	23	39.95

ACME CONTROL TRANSFORMERS



End-bell enclosed transformers to reduce AC line voltage to low voltage output. Excellent for lighting circuits, buzzer and bell systems, control valves, appliance relays and solenoids, or wherever low currents at low voltages are required. Each unit is designed for continuous duty and has conduit fitting for outlet-box mounting. Can carry substantial overloads in intermittent service. All have 115 v., 50-60 cycle AC primaries and 6" coded stranded-wire, flexible connecting leads.

Stock No.	Type TA-	Output		Size	Mtg. Ctrs.	Lbs.	EACH
		Volts	Amps VA				
62 G 460	80039	6	8.33	50 2 1/4 x 3 x 2 1/4	2 1/2 x 2 1/2	3 1/2	9.81
62 G 461	80045	6	16.67	100 3 1/4 x 3 1/4 x 3 1/4	2 1/2 x 2 1/2	5	11.91
62 G 462	80051	24	1.04	25 2 1/4 x 3 x 2 1/4	1 1/2 x 2 1/2	2	8.41
62 G 463	80054	24	2.08	50 2 1/4 x 3 x 3 1/4	2 1/2 x 2 1/2	3 1/2	9.81
62 G 464	80060	24	4.16	100 3 1/4 x 3 1/4 x 3 1/4	2 1/2 x 3 1/2	4 1/2	11.91

ACME VARIABLE VOLTAGE ADJUSTERS



Type T8394M. Tapped-winding transformer for locations where below-normal or above-normal line voltages exist for relatively long periods each day. Insures better performance and longer tube life when used with radio and TV sets, hi-fi, Ham and Citizens Band equipment, etc. Rated at 300 watts. Correct for both low or high voltage by manual adjustment of 7-position rotary switch to point where built-in voltmeter reads 115 volts output. Has regulating input-switch positions for 95, 100, 105, 110, 115, 120 and 125 volts at 50-60 cycles; built-in secondary receptacle for connection to available circuit; 8-ft. line cord. Designed for constant duty service. Simple, plug-in type installation. Size, 4 1/2 x 4 1/2 x 5 1/2. Shpg. wt., 6 lbs.

62 G 514.....EACH 11.51



Type T10306. Constant-duty 150-watt variable transformer. Easily adjusted by rotary tap switch. For use as step-up or step-down transformer to correct low or high-voltage conditions. Calibrated voltmeter indicates secondary output voltage. Primary tapped for 65, 75, 90, 100, 115, 130 and 140 volts at 50-60 cycles. Secondary output, 115 v. Non-aging, silicon steel laminations and impregnated coils for low core loss. Has 8-ft. line cord with plug and output receptacle. Size, 4 1/2 x 4 1/2 x 4 1/2. Shpg. wt., 7 lbs.

62 G 501.....EACH 15.71

UTC STANDARD PHOTOFLASH TRANSFORMERS



Can be used for either standard (Amgo type) or trigger (Sylvania) multiple flash tubes.

Type PF-1 Power Transformer. Primary, 115 volts 50-60 cycle AC. Secondary with 2X2 rectifier delivers 2200 volts DC to capacitor up to 10 mfd. Has filament tap for 2X2. 2 1/2 x 3 1/4 x 2 1/4. Wt., 2 1/2 lbs.

62 G 230.....EACH 8.41

Type PF-3 Trigger Transformer. (Not illus.) Use with PF-1 above or trigger (Sylvania type) flash tubes. 15 KV peak. Dia. 7/8 x 3" long. Shpg. wt., 6 oz.

62 G 232.....EACH 6.00

UTC TRANSISTOR PHOTOFLASH TRANSFORMERS

Miniaturized lightweight units for transistor-type photoflash supply. For 115 v. AC or portable, battery operation.

Type PF-5 Power Transformer. With two primary windings, one for operation from 115 v., 50-60 cycle AC, and other for 4 1/2-v. battery-operating transistors switched by PF-6 inverter transformer (below). Secondary output with voltage doubler: 400 v. DC, to charge photoflash capacitor. Mtg. ctrs., 2 3/8". Size, 1 1/2 x 2 1/4 x 1 3/4. Shpg. wt., 1 lb.

62 G 527.....EACH 8.41

Type PF-6 Inverter Transformer. Transforms 4 1/2-v. DC from battery to AC (in conjunction with transistorized circuitry), to drive PF-5 step-up transformer (above). Size, 7/8 x 1 1/8". Same round case as "Ouncer" audio units. Shpg. wt., 2 oz.

62 G 528.....EACH 5.10

Type PF-7 Trigger Transformer. (Not illus.) Use with PF-5, PF-6 or trigger flash tubes. 25 mfd capacitor discharging through tapped winding gives 6 KV pulse. 7/8 x 1 1/8". 1/2 oz.

63 G 529.....EACH 3.60

Bud Company Metal Products

MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS

Typically, unusually set, steel utility cabinet with a built-in chassis attached to the front. Especially suitable for mounting bridge frequency meters, transistorized recode practice oscillators, decade boxes, and sets, and many types of small, self-contained units. Reversible front and rear panels fastened with clamping screws permit easy access to controls and provide maximum layout flexibility. Black-wrinkle enamel finish.



Stock No.	Mfr's Type	Cabinet H.W.D.	Chassis H.W.D.	Wt. Lbs.	EACH
326	C-1793	4x4x2"	1x3/4x1 1/2"	3/4	1.48
327	C-1794	4x4x3"	1x4x2 1/2"	1	1.34
328	C-1795	5x4x3"	1x3 1/2x2 1/2"	1	1.62
329	C-1796	6x4x4"	1x4x3 1/2x3 1/2"	1 1/2	1.70
330	C-1797	5x4x4"	1x4x3 1/2x3 1/2"	1 1/2	1.92
331	C-1798	6x4x6"	1x4x4x5 1/2"	2 1/2	2.17

PANEL-MOUNTING CHASSIS

For vertical installation where space is limited, front service is desired. Standard 19" wide, 6 1/2" deep. Aluminum with reinforced corners. 1" flange on top, with 4 elongated holes for mounting to rack with std. panel notching. All other sides have 3/4" flanges. All models 17 1/2" wide, riding flange, and 5 1/2" deep.



Stock No.	Type	Height	Lbs.	EACH
88 PX 185	CB-1370	1 1/2"	3	2.30
88 PX 186	CB-1371	1 1/2"	3	2.59
88 PX 187	CB-1372	5 1/4"	6	2.84
88 PX 188	CB-1373	7 1/4"	6	3.26
88 PX 189	CB-1374	8 3/4"	6	3.76
88 PX 190	CB-1375	10 1/4"	7	4.43
88 PX 191	CB-1376	12 1/4"	8	4.84
88 PX 192	CB-1377	14 1/4"	8	5.34

STANDARD AMPLIFIER FOUNDATIONS

Al for most amplifier requirements. Foundations consist of modular chassis with rugged metal covers. Solid covers are used in ends of each for bracing or a snug fit to chassis. Heavy metal screening assures proper protection and ventilation of components. Metal shields provide portability. Types CA-699, CA-1125, and CA-1126 have 2 1/2" high chassis. CA-1128 has 3" high chassis. All units have a black wrinkle finish.



Stock No.	Type	H.W.D.	Lbs.	EACH
88 PX 697	CA-699	8 1/2x9 1/2x5 1/2"	3	5.61
88 PX 698	CA-1125	8 1/2x13 1/2x5 1/2"	7	6.43
88 PX 699	CA-1126	8 1/2x17 1/2x7 1/2"	11	7.26
88 PX 656	CA-1128	8 1/2x12 1/2x10 1/2"	11	7.52

SHADOW CABINETS

Shadow cabinets for amplifiers, test equipment, etc. Both front and rear panels as standard may be reworked for in-line mounting and shielding. Front panel is recessed 1" to protect controls, meters, and switches. Recessed panel front edge of cabinet provides attractive appearance. Lightly constructed of 18-gauge steel, panels of gauge steel. Rubber feet attached to bottom of cabinet prevent marring of the surface on which it may be placed. Finished in attractive, black wrinkle enamel.



Stock No.	Mfr's Type	Size H.W.D.	Use Bud Chassis	Wt. Lbs.	EACH
88 PX 746	SB-2140	8x14 1/2x10"	AC-424	15	6.50
88 PX 747	SB-2141	7 1/2x13 1/2x9"	AC-407	15	5.00
88 PX 748	SB-2142	9x17x11 1/2"	CB-668	20	8.85
88 PX 749	SB-2143	6x15 1/2x9"	AC-409	14	4.65

UTILITY CABINETS

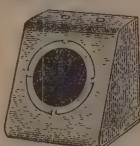
Attractive housing with rounded corners. All constructed of 20 gauge steel. Front and rear panels removable; rear panel louvers for ventilation. 4 rubber feet. Body finished in dark gray enamel, panels in light gray enamel.



Stock No.	Mfr's Type	Size H.W.D.	Wt. Lbs.	EACH
88 PX 692	CU-463	4 1/2x6 1/2x3 3/4"	1 1/4	5.50
88 PX 693	CU-465	4 1/2x6 1/2x5 1/4"	2 1/4	6.35
88 PX 694	CU-585	5 1/2x6 1/2x5 1/4"	2 1/4	8.35
88 PX 695	CU-587	5 1/2x6 1/2x7 1/4"	3 1/4	9.10
88 PX 696	CU-7125	7 1/2x12 1/2x5 1/4"	5	9.70
88 PX 697	CU-7127	7 1/2x12 1/2x7 1/4"	6	10.35

UNIVERSAL METER CASES

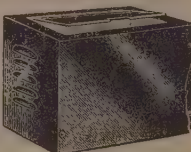
For use with 2" or 3" meters. With front panel for 2" meter. Knockout ring enlarges hole for a 3" meter. Have one-piece back and side attached with 4 screws. Top has two 3/8" knockouts for terminal posts or feed-throughs. Steel or aluminum. Standard Hammertone 4 1/2x4x4".



Stock No.	Type	Material	Lbs.	EACH
88 PX 541	CM 1935	Steel	1	1.22
88 PX 542	CMA 1936	Aluminum	3/4	1.47

INSTRUMENT AND RECEIVER CABINETS

Ruggedly constructed steel cabinets. Have recessed hinged cover for easy access. Front panel is held securely in place with self-tapping screws. Panel extends full width of cabinet—provides maximum space for controls. Louvers on each side assure ample ventilation. Black wrinkle enamel finish.



Stock No.	Type	H.W.D.	Lbs.	EACH
80 P 378	C-973	7x8x8"	8	4.18
80 P 379	C-993	7x10x8"	8	4.84
80 PX 380	C-994	7x12x8"	10	5.01
80 PX 381	C-995	7x14x8"	12	5.26
80 PX 382	C-1190	8x16x8"	13	7.60
80 PX 383	C-975	9x15x11"	18	9.19
80 PX 384	C-999	12x18x12"	22	9.92

MINIATURE AMPLIFIER FOUNDATION

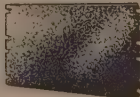
Type CA-1754. Meets the requirements of builders employing miniaturized components. Chassis is only 2" high, 7" wide, and 5" deep. With cover fastened in place, entire unit stands only 6 1/2" high! All-steel construction. Removable cover includes a carrying handle. Cover is heavily perforated, fastened to chassis sides by 4 self-tapping screws. Black wrinkle finish. 1 1/4 lbs.



86 P 214.....EACH 4.00

STANDARD RACK PANELS

Heavy-duty rack panel constructed of 1/2" aluminum. All are 19" in width and have notched edges to fit mounting screw spacing of standard telephone type relay racks. Light gray Hammertone finish.



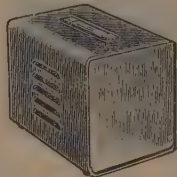
Stock No.	Height	Wt. Lbs.	EACH
88 PX 601	1 1/2"	2	1.09
88 PX 602	3 1/2"	3	1.42
88 PX 603	5 1/4"	4	1.92
88 PX 604	7 1/4"	4	2.42
88 PX 605	8 3/4"	5	2.84
88 PX 606	10 1/4"	6	3.59
88 PX 607	12 1/4"	7	4.09
88 PX 608	14 1/4"	8	4.76
88 PX 609	15 3/4"	8	5.34
88 PX 610	17 1/2"	9	5.85
88 PX 611	19 1/2"	9	6.43
88 PX 612	21 1/2"	10	7.01

"PORTACAB" CABINETS

One Piece Aluminum Construction

Flexible Recessed Handles for Stacking

Well-Louvered for Adequate Ventilation



Recommended as housings for instrumentation requiring highly stylized appearance. The body is one-piece .050" aluminum with contoured corners. Panel is .062" aluminum. Flexible recessed handle permits easy portability as well as vertical stacking. Louvers point inward permitting side-to-side placement without loss of space. Welded back has opening. Four detachable rubber feet are provided. Available in gray hammertone finish only.

Stock No.	Mfr's Type	Size H.W.D.	Use Bud Chassis	Wt. Lbs.	EACH
88 PX 227	WA-1540	8x6x8 1/2"	AC-402	7	9.20
88 PX 228	WA-1541	9x8 1/2x12"	AC-407	8	10.00
88 PX 229	WA-1542	8x10 1/2x8"	AC-406	8	10.65
88 PX 230	WA-1543	11x11 1/2x18"	AC-416	11	13.50
88 PX 233	WA-1544	12x14 1/2x18"	AC-420	12	15.50

DESK-TYPE RACKS

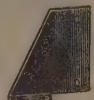
A strong chassis ideally suited for mounting heavy components. Perfect for table mounting of low and medium power transmitters, P.A. systems, and other electronic equipment. Designed for use with standard 19" panels. No exposed edges. With hardware. Gray hammertone finish.



Stock No.	Mfr's Type	Panel Ht.	Overall Size	Wt. Lbs.	EACH
86 PU 879	RR-1248	21"	24x20 1/2x12"	20	9.10
86 PU 880	RR-1249	28"	31x20 1/2x12"	22	11.19

CHASSIS MOUNTING BRACKETS

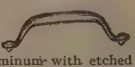
An excellent accessory for adapting racks and cabinets to specific needs. A rugged, top-quality bracket formed of heavy gauge steel. Cut away at the bottom to provide clearance for a chassis 3" high. Finished in high-grade black enamel. For use with 4" chassis. Av. wt., 5 lbs.



Stock No.	Type	Ht.	Depth	Per Pair
86 P 219	MB-458	6 1/2"	8"	1.09
86 P 220	MB-448	6 1/2"	10"	1.35
86 P 218	MB-459	6 1/2"	11"	1.50
86 P 221	MB-449	6 1/2"	12"	1.75
86 P 224	MB-460	6 1/2"	13"	1.69
86 P 223	MB-450	8 1/2"	10"	1.97
86 P 225	MB-451	8 1/2"	13"	2.09

UTILITY HANDLES

Strong handles with comfortable grip. Ideal for mounting on cabinets to afford portability. Made of tubular aluminum with etched finish. Shop. wt., 2 oz.



Stock No.	Type	Length	Mtg. Ctr.	EACH
86 P 849	UH-70A	5 1/2"	4 3/4"	36
86 P 899	UH-71A	3 1/2"	4 3/4"	30

PLASTIC CASES AND PANELS

Molded black plastic cases and panels designed for test instrument mounting. Sturdily constructed to protect meter and components. Cases have recessed corner bosses for flush mounting of panels. Pre-drilled for 5/16" self-tapping screws. Case walls and panels are 1/4" thick.



Stock No.	Size H.W.D.	Wt. Lbs.	EACH
88 P 286	6 1/2x3 1/2x2"	1 1/2	.66
86 P 287	6 1/2x5 1/2x2 1/2"	2	.84

MATCHING PANELS

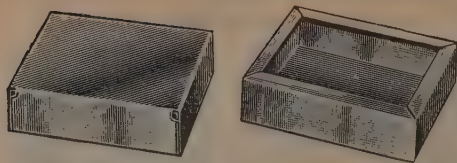
Stock No.	Size H.W.	Wt. Lbs.	EACH
86 P 288	6x3 1/2"	1	.48
86 P 289	6x5 1/2"	1 1/2	.60

Bud Quality Metal Products

STANDARD CHASSIS BASES

Have one-piece construction; corners are reinforced and spot-welded. The four sides are folded at the bottom for additional strength. Aluminum types are spot-welded. Steel chassis gauges: *No. 22; †No. 20; §No. 18. Aluminum chassis gauges (aluminum gauge): †No. 18; *No. 16; †No. 14. Less bottom plates. AC-403: 2x9½x5".

Allied stocks the complete Bud line of metal goods. Even if the Bud equipment you require is not listed, Allied can fill your order quickly.



Black-Wrinkle Steel					Zinc-Plated Steel					Aluminum				
H. W. D. Inches	Stock No.	Type	Lbs.	EACH	Stock No.	Type	Lbs.	EACH		Stock No.	Type	Lbs.	EACH	
2x6x4	80 P 456	CB-628*	1	1.07	86 P 277	CB-629*	1	1.30		86 P 930	AC-431†	¾	1.10	
2x7x5	80 P 457	CB-644*	1 ¼	1.37	86 P 905	CB-645*	1 ¼	1.67		86 P 112	AC-402†	¾	1.17	
1½x9½x5	80 P 458	CB-788*	1	1.20	86 P 906	CB-645*	1 ¼	1.67		86 P 113	AC-403†	¾	1.24	
3x6x4								1.69		86 P 932	AC-430†	¾	1.34	
3x7x5										86 P 933	AC-429**	¾	1.42	
3x9½x5										86 P 114	AC-421†	¾	1.60	
3x10x5	80 P 459	CB-604*	1 ¼	1.27	86 P 271	CB-605*	1 ¼	1.84		86 P 117	AC-404†	¾	1.63	
3x13x5										86 P 934	AC-422†	¾	1.84	
3x14x6	80 P 460	CB-755†	1 ¼	1.75	86 P 907	CB-756†	1 ¼	2.05						
3x17x6														
2x7x7	80 P 461	CB-789†	1 ¼	1.20	86 P 272	CB-1191†	1 ¼	1.50		86 PX 935	AC-433**	1 ¼	2.67	
2x9x7	80 P 462	CB-790†	1 ¼	1.40	86 P 273	CB-1192†	1 ¼	1.59		86 P 115	AC-405†	¾	1.35	
2x11x7	80 P 463	CB-791†	1 ¼	1.45	86 P 274	CB-1193†	1 ¼	1.59		86 P 116	AC-406†	¾	1.46	
3x12x7	80 P 464	CB-792†	1 ¼	1.57	86 P 275	CB-793†	1 ¼	2.05		86 P 118	AC-408†	¾	2.00	
2x13x7	80 P 465	CB-646†	2	1.99	86 P 276	CB-1194†	2	1.92		86 P 119	AC-409†	¾	1.67	
2½x13½x5	80 P 466	CB-647†	1 ¼	1.77	86 PX 908	CB-1198†	1 ¼	2.17						
3x15x7	80 P 467	CB-649†	2	2.00	86 PX 909	CB-1189†	2	2.40		86 PX 936	AC-411**	1 ¼	2.67	
3x15x8½	80 P 468	CB-650†	2 ¼	2.24	86 PX 910	CB-660†	2 ¼	2.7		86 PX 937	AC-432**	1 ¼	2.33	
3x17x8	80 P 469	CB-1068†	2 ¼	1.80	86 PX 911	CB-1069†	2 ¼	2.14						
2½x17x7	80 P 470	CB-648†	2 ¼	1.99	86 PX 912	CB-1199†	2 ¼	2.37						
3x17x7	80 P 471	CB-757†	2 ¼	2.15	86 PX 913	CB-758†	2 ¼	2.59		86 PX 938	AC-423**	1 ¼	2.75	
2½x10x8	80 P 472	CB-701†	2	1.72	86 PX 914	CB-702†	2	2.02						
3x12x8	80 P 473	CB-703†	2 ¼	1.75	86 PX 915	CB-704†	2 ¼	2.24		86 P 939	AC-424**	1 ¼	2.42	
3x12x8	80 P 474	CB-759†	1 ¼	1.85	86 PX 916	CB-757†	1 ¼	2.34		86 PX 940	AC-425**	1 ¼	2.51	
2x17x8	80 P 475	CB-650†	2 ¼	2.24	86 PX 917	CB-774†	2 ¼	2.34		86 P 120	AC-412**	1 ¼	2.84	
3x17x8	80 P 476	CB-651†	3	2.05	86 PX 918	CB-775†	3	2.62		86 P 121	AC-413**	1 ¼	2.67	
3x12x10	80 P 477	CB-652†	3	1.89	86 PX 919	CB-1195†	3	2.65		86 P 941	AC-414**	1 ¼	2.84	
3x14x10	80 P 478	CB-653†	4	2.04	86 PX 920	CB-779†	4	2.44		86 P 942	AC-415**	1 ¼	2.68	
2x17x10	80 P 479	CB-654†	3 ¼	2.00	86 PX 278	CB-769†	3 ¼	2.39		86 PX 943	AC-416**	2	3.17	
3x17x10	80 P 480	CB-656†	4	2.00	86 PX 921	CB-1196†	4	3.05						
3x17x10	80 P 481	CB-655†	4	2.86	86 PX 385	CB-637†	5	2.84		86 PX 122	AC-426††	2 ¼	3.42	
3x23x10	80 P 482	CB-656	5 ¼	2.86	86 PX 922	CB-1197†	5 ¼	3.42		86 PX 123	AC-417††	2 ¼	3.97	
3x17x11	80 P 483	CB-657†	4 ¼	2.35	86 PX 923	CB-770†	4 ¼	2.81						
3x17x11	80 P 484	CB-658†	4 ¼	2.77	86 PX 266	CB-771†	4 ¼	3.49						
2x17x12	80 P 485	CB-663†	4 ¼	2.44	86 PX 925	CB-661†	4 ¼	3.09		86 PX 128	AC-418††	2 ¼	4.08	
3x17x12	80 P 486	CB-659†	5	2.91	86 PX 268	CB-772†	5	3.72		86 PX 944	AC-419††	2 ¼	3.51	
3x17x13	80 P 487	CB-681†	5	3.41	86 PX 409	CB-773†	5	4.07		86 PX 124	AC-420††	2 ¼	4.26	
3x17x13	80 P 488	CB-660†	5 ¼	3.41	86 PX 270	CB-773†	5 ¼	4.07		86 PX 125	AC-421††	3 ¼	4.51	
4x17x10	80 P 489	CB-640†	6 ¼	2.92	86 PX 926	CB-641†	6 ¼	3.51						
4x17x13	80 P 490	CB-642†	7 ¼	3.92	86 PX 927	CB-643†	7 ¼	4.68		86 PX 126	AC-428††	3 ¼	5.26	
5x17x10	80 P 491	CB-623†	7 ¼	4.51	86 PX 928	CB-624†	7 ¼	5.34						
5x17x13	80 P 492	CB-625†	8	4.93	86 PX 929	CB-626†	8	5.93						

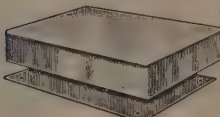
BOTTOM PLATES FOR CHASSIS BASES

Bottom plates to fit the chassis bases listed above. Ideal for shielding. In zinc-plated or black ripple heavy-gauge steel plate and aluminum. Four

raised bosses in corners to prevent marring and scratching of table-top or shelves. Drilled for use with No. 6 self-tapping screws.

Black Winkle					Zinc Plated					Aluminum				
Size	Lbs.	Stock No.	Type	No.	EACH	Stock No.	Type	No.	EACH	Stock No.	Type	No.	Lbs.	EACH
5x7"	¾	80 P 386	BP-705		.57	80 P 406	BP-706		.69	80 P 426	BPA-1589		¾	.74
5x9½"	¾	80 P 387	BP-680		.62	80 P 407	BP-667		.75	80 P 427	BPA-1590		¾	.75
5x10"	1	80 P 388	BP-536		.67	80 P 408	BP-538		.73	80 P 428	BPA-1591		¾	.75
7x9"	1	80 P 389	BP-681		.92	80 P 409	BP-668		.97	80 P 429	BPA-1592		¾	.75
7x9"	1	80 P 390	BP-682		.94	80 P 410	BP-669		.99	80 P 430	BPA-1593		¾	.80
7x11"	1	80 P 391	BP-683		.95	80 P 411	BP-670		1.07	80 P 431	BPA-1594		¾	.90
7x12"	1 ¼	80 P 392	BP-537		.99	80 P 412	BP-671		1.12	80 P 432	BPA-1595		¾	.97
7x13"	1 ¼	80 P 393	BP-684		1.02	80 P 413	BP-672		1.20	80 P 433	BPA-1596		¾	1.14
5x13½"	1 ¼	80 P 394	BP-685		.84	80 P 414	BP-673		1.00					
4x17"	1 ¼	80 P 395	BP-1069		.84	80 P 415	BP-1067		1.07					
7x17"	1 ¼	80 P 396	BP-686		.90	80 P 416	BP-673		1.37					
8x10"	1 ¼	80 P 400	BP-707		.92	80 P 417	BP-708		1.05					
8x12"	1 ¼	80 P 397	BP-709		.96	80 P 418	BP-710		1.34					
10x12"	1 ¼	80 P 398	BP-687		1.01	80 P 419	BP-675		1.09					
10x12"	1 ¼	80 P 399	BP-688		.95	80 P 420	BP-675		1.57					
10x14"	1 ¼	80 P 401	BP-517		1.25	80 P 421	BP-514		1.33					
10x17"	1 ¼	80 P 402	BP-689		1.20	80 P 422	BP-676		1.60	80 P 434	BPA-1597		¾	1.52
11x17"	1 ¼	80 P 403	BP-690		1.20	80 P 423	BP-677		1.60					
12x17"	2	80 P 404	BP-691		.27	80 P 424	BP-678		1.87	80 P 435	BPA-1598		¾	2.07
13x17"	2 ¼	80 P 405	BP-692		.47	80 P 425	BP-679		2.24					

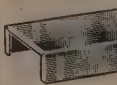
HEAVY-DUTY CHASSIS BASES



Rugged chassis bases. Formed of one-piece heavy ¼" steel. Corners spot welded and sides folded over at bottom. Electro-zinc plated. With bottom plates and screws.

Stock No.	Type	H.W.D.	Lbs.	E.A.
86 P 240	CB-1765	3x17x8"	7 ½	4.76
86 P 242	CB-1767	3x17x11"	9	4.84
86 P 243	CB-1768	2x17x13"	9 ¼	5.34
86 P 244	CB-1769	3x17x13"	10	5.43
86 P 946	CB-1770	4x17x13"	11	5.85

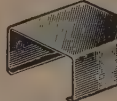
OPEN-END CHASSIS



Open-end, heavy-gauge aluminum chassis. Have U-shaped construction with ends folded over ½" to provide additional strength. Available in a wide variety of sizes. Excellent for use with Bud cabinets specified in table, below. Av. shpg. wt., 1½ lb.

Stock No.	Type	H.W.D.	For Cabinet	EACH
80 P 437	CB-40	1½x7x5"		.97
80 P 438	CB-31	1½x7x7"	C-973	1.24
80 P 440	CB-98	1½x9x5½"	C-983	1.09
80 P 441	CB-976	1½x9x7½"	C-999, CD-1481	1.40
80 P 443	CB-997	1½x11x7"	C-994, CD-1482	1.30
80 P 444	CB-998	1½x13x7"	C-995, CD-1483	1.59
80 P 436	CB-38	2x6x7"	C-1584	1.00
80 P 439	CB-39	2x8x7"	C-1585	1.17
80 P 442	CB-40	2x10x7"	C-1586	1.37

MINIATURE ALUMINUM CHASSIS



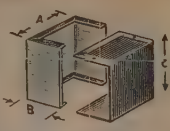
Open-end aluminum chassis for limited applications. Excellent for use with miniature tubes and for sub-assembly. Have ¼" mounting flanges. Av. shpg. wt., ½ lb.

Stock No.	Type	H.W.D.	For Cabinet	EACH
80 P 446	CB-1624	1x3½x1½"	CU-883	.42
80 P 452	CB-1616	1x3½x4"	C-1606	.41
80 P 448	CB-1626	1x4½x2½"	CU-728	.45
80 P 453	CB-1618	1x4½x4"	C-1607	.50
80 P 454	CB-1619	1x4½x4"	C-1608	.53
80 P 455	CB-1620	1x4½x4"	C-1609	.55
80 P 445	CB-1623	1½x2½x2½"		.38
80 P 449	CB-1628	1½x6½x3"	C-1788	.53
80 P 449	CB-1627	1½x4½x3½"	CU-729	.45
80 P 451	CB-1629	1½x4½x3½"	CU-1098	.57
80 P 447	CB-1625	2x4½x3½"	C-1788	.46

Bud Quality Metal Products

ALUMINUM MINIBOXES

piece aluminum boxes with gray ham-tone or natural aluminum finish. Partic- ularly suited for sub-assemblies. May be used for amplifiers, converters, TV filters, units, etc. Two-piece construction per- mits easy access to circuitry. Flanges assure RF leakage and high rigidity. Dual-pur- pose locks permit quick assembly and assembly; also permit use with self-tap- screws (supplied).



Size Ax Cx B	Shpg. Wt. Lbs.	Gray Hammer- tone	Type CU-	EACH	Natural Alum- inum	Type CU-	EACH
2 1/2 x 1 1/2 x 1/2	1/4	80 P 342	2100A	.74	80 P 360	3000A	.59
2 1/2 x 1 1/2 x 1/2	1/4	80 P 359	2117A	.78	80 P 377	3017A	.61
2 1/2 x 1 1/2 x 1/2	1/4	80 P 343	2101A	.76	80 P 361	3001A	.62
2 1/2 x 1 1/2 x 1/2	1/4	80 P 357	2115A	.92	80 P 375	3015A	.74
2 1/2 x 1 1/2 x 1/2	1/4	80 P 344	2102A	.80	80 P 362	3002A	.64
2 1/2 x 2 1/2 x 1/2	1/4	80 P 345	2103A	.90	80 P 363	3003A	.72
2 1/2 x 2 1/2 x 1/2	1/4	80 P 358	2116A	.92	80 P 376	3016A	.74
2 1/2 x 2 1/2 x 1/2	1/4	80 P 346	2104A	.95	80 P 364	3004A	.76
2 1/2 x 2 1/2 x 1/2	1/4	80 P 347	2105A	1.20	80 P 365	3005A	.96
2 1/2 x 2 1/2 x 1/2	1/4	80 P 348	2106A	1.02	80 P 366	3006A	.82
3 x 3	3/4	80 P 349	2107A	1.50	80 P 367	3007A	1.20
3 x 3	3/4	80 P 350	2108A	1.65	80 P 368	3008A	1.32
3 x 3 1/2	1	80 P 351	2109A	2.10	80 P 369	3009A	1.68
2 x 1 1/2 x 1/2	1/2	80 P 352	2113A	1.20	80 P 373	3013A	.96
2 1/2 x 3 1/2	1 1/4	80 P 353	2110A	2.35	80 P 370	3010A	1.88
2 1/2 x 2 1/2	3/4	80 P 356	2114A	1.15	80 P 374	3014A	.92
1 1/2 x 1 1/2	1/2	80 P 354	2112A	1.20	80 P 371	3011A	2.56
1 1/2 x 1 1/2	2 1/4	80 P 354	2112A	3.20	80 P 372	3012A	2.56

METAL UTILITY CABINETS

metal utility cabinets for all types of electronic equipment. Excellent for housing receivers, moni- tors, VFO's, test equipment, frequency meters, transmitters, etc. Well adapted for shielding of high gain preamplifiers, RF sections, other special circuits. Two removable panels attach to flanges with self-tapping screws. *Aluminum.

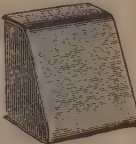


*Aluminum.					
Size, H. W. D.	Mfr's Type	Wt., Lbs.	Stock No. (Steel)		EACH
			Black	Gray	
3x4x2	CU883	3/4	86 P 200	80 P 332	1.09
3x4x3	CU728	1 1/8	86 P 201	80 P 333	1.22
3x4x4	CU729	1 1/8	86 P 202	80 P 334	1.38
3x6x6	CU1098	2 1/2	86 P 203	80 P 335	2.09
3x6x6	CU1099	3	86 P 204	80 P 336	2.34
3x8x7	CU879	5	86 P 205	80 P 337	3.34
3x10x8	CU880	5 1/2	86 P 206	80 P 338	4.01
3x12x8	CU1124	4 1/2	86 P 207	80 P 339	3.29
3x12x8*	CU881	6	86 P 208	80 P 340	4.34
3x12x8*	CU882	7 1/2	86 P 209	80 P 341	4.31

Size, H. W. D.	Mfr's Type	Wt. Lbs.	Natural Aluminum	EACH	*Gray Hammer-tone	
					EACH	EACH
3x4x2	AU-1083	1/4	88 P 543	1.29	88 P 548	1.50
3x4x3	AU-1028	1/4	88 P 544	1.37	88 P 549	1.67
3x4x4	AU-1029	1/4	88 P 545	1.50	88 P 550	1.84
3x6x6	AU-1039	3/4	88 P 546	2.22	88 P 551	2.62
3x6x6	AU-1040	1	88 P 547	2.51	88 P 552	2.84

UNIVERSAL SLOPING-PANEL CABINETS

crassite, streamlined sloping-panel cabinets available in steel or aluminum. Offer enough space to house a two or three miniature tube amplifier or gadget. Sides and one-piece detach- able back fasten to the body with self- tapping screws for easy service and replacement components. Fully enclosed to exclude dust and moisture. Easily accommodate most small chassis. All units are 4" high, 4 1/4" deep. Finished attractive, gray hammer-tone finish.



Size H.W.D.	Steel Stock No.	Type C-	Shpg. Wt. Lbs.	EA.	Aluminum Stock No.	Type AC-	Shpg. Wt. Lbs.	EA.
4"	88 P 642	1006	3/4	1.45	88 P 646	1610	1/2	1.66
5"	88 P 643	1007	3/4	1.55	88 P 647	1611	3/4	1.75
6"	88 P 644	1008	1 1/8	1.90	88 P 648	1612	3/4	1.90
7"	88 P 645	1009	1 1/8	1.90	88 P 649	1613	3/4	2.10

SHIELDED-SURFACE RACK PANELS

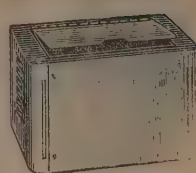
* Thick, naturally bright aluminum alloy ray- shield panels in bluish-free mill finish. Covered on both sides with sturdy, pressure sensitive white paper to protect against damage. Paper is excellent for marking panel for hole-cutting and drilling. 19" wide; standard notching.



Height	Shpg. Wt. Lbs.	Mfr's Type	Stock No.	EACH
1 1/4"	1/4	SFA-1831	88 PX 662	.97
3 1/2"	1	SFA-1832	88 PX 663	1.34
5"	1 1/4	SFA-1833	88 PX 664	2.21
8 1/4"	2	SFA-1835	88 PX 666	2.66
10 1/2"	2 1/2	SFA-1836	88 PX 667	3.34
12 1/2"	2 1/2	SFA-1837	88 PX 668	3.85
14"	3	SFA-1838	88 PX 669	4.45
15 3/4"	3 1/2	SFA-1839	88 PX 670	4.97
17 1/2"	4	SFA-1840	88 PX 671	5.47
19 1/2"	4 1/2	SFA-1841	88 PX 672	5.99
21 1/2"	5	SFA-1842	88 PX 673	6.50

STREAMLINED CABINETS

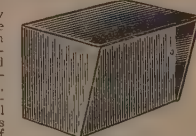
Steel cabinets for electrical or electronic devices not requiring excessive depth. Feature recessed hinged cover with conven- ient finger lift; panels fit flush with embossed, rounded corner fronts. All components built into cabinets are easily accessible. Have 3 1/2" high opening across the back for cables or rear controls. Lowered sides provide ample ventila- tion. All are 8" high and 8 1/4" deep except *12" high and 12" deep. CD-1485 has 1/2" vertical chrome strip fastened to corners. Buy open-end chassis recommended for use in these cabinets. Choice of gray hammer-tone or black wrinkle finish.



Size H.W.D.	Panel	Type CD	Gray Hammer-tone	Black Wrinkle	Wt. Lbs.	EACH
10 1/2"	8x8"	1480	88 PX 650	88 PX 651	3/4	5.90
12 1/2"	8x10"	1481	88 PX 652	88 PX 653	6	6.01
14 1/2"	8x12"	1482	88 PX 654	88 PX 655	6 1/2	6.31
16 1/2"	8x14"	1483	88 PX 656	88 PX 657	7	6.77
18 1/2"	8x16"	1484	88 PX 658	88 PX 659	7 1/4	7.26
20 1/2"	12x18"	1485*	88 PX 660	88 PX 661	15	14.95

COWL-TYPE MINIBOXES

Bud's cowl-type miniboxes. Attractively styled; easily drilled or punched. Have projecting cover which reduces glare on the panel from overhead lighting. Also provide protection for knobs, switches and meter faces. May be used for housing re- ceivers, transmitters, test equipment, etc. Cover has two 1/2" box braces to which bot- tom is attached with #6 sheet metal screws provided. This construction results in a sturdy, rigid housing. All are made of long-lasting, 18-gauge aluminum. Choice of handsome, gray hammer- tone finish or natural aluminum finish.

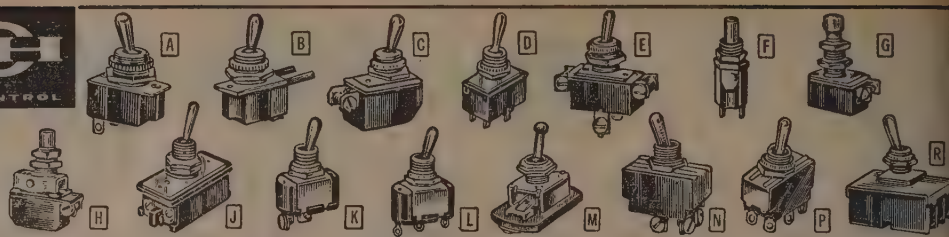


Size H.W.D.	Shpg. Wt. Lbs.	Gray Hammer-tone	Type SC	EACH	Natural Aluminum	Type SC	EACH
6x10x7"	1 1/2	88 P 684	2130	5.95	88 P 688	3030	4.30
7x12x8"	1 1/2	88 P 685	2131	5.50	88 P 689	3031	4.70
3x8x6"	1	88 P 686	2132	3.45	88 P 690	3032	2.45
5x5x5"	1	88 P 687	2133	3.66	88 P 691	3033	2.60

SLOPING-PANEL CABINETS

Sloping-panel steel cabinets with hinged top for easy access to tubes and top-of-chassis components. Removable front panel permits easy attachment of chassis. Fit following sized chassis: Type C-1584, 7x6x2"; Type C-1585, 7x8x2"; Type C-1586, 7x10x2"; Type C-1587, 7x12x2"; Type C-1588, 7x12x2"; Type C-1892, 8x12x2 1/2"; Type C-1893, 8x12x2 1/2"; Type C-1894, 7x12x2"; Type C-1895, 7x12x2"; Type C-1896, 7x12x2"; Type C-1897, 7x12x2"; Type C-1898, 7x12x2"; Type C-1899, 7x12x2"; Type C-1900, 7x12x2"; Type C-1901, 7x12x2"; Type C-1902, 7x12x2"; Type C-1903, 7x12x2"; Type C-1904, 7x12x2"; Type C-1905, 7x12x2"; Type C-1906, 7x12x2"; Type C-1907, 7x12x2"; Type C-1908, 7x12x2"; Type C-1909, 7x12x2"; Type C-1910, 7x12x2"; Type C-1911, 7x12x2"; Type C-1912, 7x12x2"; Type C-1913, 7x12x2"; Type C-1914, 7x12x2"; Type C-1915, 7x12x2"; Type C-1916, 7x12x2"; Type C-1917, 7x12x2"; Type C-1918, 7x12x2"; Type C-1919, 7x12x2"; Type C-1920, 7x12x2"; Type C-1921, 7x12x2"; Type C-1922, 7x12x2"; Type C-1923, 7x12x2"; Type C-1924, 7x12x2"; Type C-1925, 7x12x2"; Type C-1926, 7x12x2"; Type C-1927, 7x12x2"; Type C-1928, 7x12x2"; Type C-1929, 7x12x2"; Type C-1930, 7x12x2"; Type C-1931, 7x12x2"; Type C-1932, 7x12x2"; Type C-1933, 7x12x2"; Type C-1934, 7x12x2"; Type C-1935, 7x12x2"; Type C-1936, 7x12x2"; Type C-1937, 7x12x2"; Type C-1938, 7x12x2"; Type C-1939, 7x12x2"; Type C-1940, 7x12x2"; Type C-1941, 7x12x2"; Type C-1942, 7x12x2"; Type C-1943, 7x12x2"; Type C-1944, 7x12x2"; Type C-1945, 7x12x2"; Type C-1946, 7x12x2"; Type C-1947, 7x12x2"; Type C-1948, 7x12x2"; Type C-1949, 7x12x2"; Type C-1950, 7x12x2"; Type C-1951, 7x12x2"; Type C-1952, 7x12x2"; Type C-1953, 7x12x2"; Type C-1954, 7x12x2"; Type C-1955, 7x12x2"; Type C-1956, 7x12x2"; Type C-1957, 7x12x2"; Type C-1958, 7x12x2"; Type C-1959, 7x12x2"; Type C-1960, 7x12x2"; Type C-1961, 7x12x2"; Type C-1962, 7x12x2"; Type C-1963, 7x12x2"; Type C-1964, 7x12x2"; Type C-1965, 7x12x2"; Type C-1966, 7x12x2"; Type C-1967, 7x12x2"; Type C-1968, 7x12x2"; Type C-1969, 7x12x2"; Type C-1970, 7x12x2"; Type C-1971, 7x12x2"; Type C-1972, 7x12x2"; Type C-1973, 7x12x2"; Type C-1974, 7x12x2"; Type C-1975, 7x12x2"; Type C-1976, 7x12x2"; Type C-1977, 7x12x2"; Type C-1978, 7x12x2"; Type C-1979, 7x12x2"; Type C-1980, 7x12x2"; Type C-1981, 7x12x2"; Type C-1982, 7x12x2"; Type C-1983, 7x12x2"; Type C-1984, 7x12x2"; Type C-1985, 7x12x2"; Type C-1986, 7x12x2"; Type C-1987, 7x12x2"; Type C-1988, 7x12x2"; Type C-1989, 7x12x2"; Type C-1990, 7x12x2"; Type C-1991, 7x12x2"; Type C-1992, 7x12x2"; Type C-1993, 7x12x2"; Type C-1994, 7x12x2"; Type C-1995, 7x12x2"; Type C-1996, 7x12x2"; Type C-1997, 7x12x2"; Type C-1998, 7x12x2"; Type C-1999, 7x12x2"; Type C-2000, 7x12x2"; Type C-2001, 7x12x2"; Type C-2002, 7x12x2"; Type C-2003, 7x12x2"; Type C-2004, 7x12x2"; Type C-2005, 7x12x2"; Type C-2006, 7x12x2"; Type C-2007, 7x12x2"; Type C-2008, 7x12x2"; Type C-2009, 7x12x2"; Type C-2010, 7x12x2"; Type C-2011, 7x12x2"; Type C-2012, 7x12x2"; Type C-2013, 7x12x2"; Type C-2014, 7x12x2"; Type C-2015, 7x12x2"; Type C-2016, 7x12x2"; Type C-2017, 7x12x2"; Type C-2018, 7x12x2"; Type C-2019, 7x12x2"; Type C-2020, 7x12x2"; Type C-2021, 7x12x2"; Type C-2022, 7x12x2"; 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Type C-2115, 7x12x2"; Type C-2116, 7x12x2"; Type C-2117, 7x12x2"; Type C-2118, 7x12x2"; Type C-2119, 7x12x2"; Type C-2120, 7x12x2"; Type C-2121, 7x12x2"; Type C-2122, 7x12x2"; Type C-2123, 7x12x2"; Type C-2124, 7x12x2"; Type C-2125, 7x12x2"; Type C-2126, 7x12x2"; Type C-2127, 7x12x2"; Type C-2128, 7x12x2"; Type C-2129, 7x12x2"; Type C-2130, 7x12x2"; Type C-2131, 7x12x2"; Type C-2132, 7x12x2"; Type C-2133, 7x12x2"; Type C-2134, 7x12x2"; Type C-2135, 7x12x2"; Type C-2136, 7x12x2"; Type C-2137, 7x12x2"; Type C-2138, 7x12x2"; Type C-2139, 7x12x2"; Type C-2140, 7x12x2"; Type C-2141, 7x12x2"; Type C-2142, 7x12x2"; Type C-2143, 7x12x2"; Type C-2144, 7x12x2"; Type C-2145, 7x12x2"; Type C-2146, 7x12x2"; Type C-2147, 7x12x2"; Type C-2148, 7x12x2"; Type C-2149, 7x12x2"; Type C-2150, 7x12x2"; Type C-2151, 7x12x2"; Type C-2152, 7x12x2"; Type C-2153, 7x12x2"; Type C-2154, 7x12x2"; Type C-2155, 7x12x2"; Type C-2156, 7x12x2"; Type C-2157, 7x12x2"; Type C-2158, 7x12x2"; Type C-2159, 7x12x2"; Type C-2160, 7x12x2"; 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Cutler-Hammer Switches



AC-DC TOGGLE SWITCHES

LIGHT-DUTY TYPES

Convenient one-hole-mounting switches for installation on flat surfaces. Phenolic case. $\frac{1}{2}$ " dia. threaded stem; $1\frac{1}{2}$ " stem length, except $\frac{1}{4}$ ", $16'$ wire leads, $\frac{1}{8}$ " screw terminals—others solder lug terminals. U.L. and C.S.A. Listed. Av. wt., 3 oz.

SPST

Stock No.	Mfr's Type	Fig.	Ampers 125V 250V	EACH
34 B 527	8280K14*	A	 3	.52
34 B 500	8280K16	B	 3	.52
34 B 784	8280K16†	B	 3	.63
34 B 786	8295K8†	C	 3	.63
34 B 508	8381K8	A	6 3	.60
34 B 789	8391K8†	B	6 3	.71
34 B 791	8396K8†	C	6 3	.71

SPDT

34 B 528	8282K12*	D	3 1	.66
34 B 501	8282K14	D	3 1	.66

2-CIRCUIT

35 B 710	8284K12*	D	3 1	.70
35 B 500	8284K14	D	3 1	.70

DPST

34 B 529	8360K6*	D	 3	.95
34 B 502	8360K7	D	 3	.95
34 B 792	8370K7	D	6 3	1.02
34 B 793	8372K7†	D	6 3	1.25

DPDT

34 B 530	8363K6*	D	 3	1.24
34 B 503	8363K7	D	 3	1.09
35 B 943	8365K7†	E	 3	1.44
34 B 632	8373K7†	D	6 3	1.18
34 B 795	8375K7†	E	6 3	1.51

PUSHBUTTON AC-DC TYPE

Momentary-contact type for controlling current by opening or closing of a door—i.e., turn lights on and off in refrigerators, telephone booths, closets, etc. Have solder lugs, except *screw-type. All are SPST-N.O., except †SPST-N.C.; ‡DPDT. Have $\frac{1}{2}$ " stem, black button, except $\frac{1}{4}$ " stem, red button; $\frac{1}{16}$ " stem, push-push type; $\frac{1}{8}$ " stem. U.L. Listed. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Ampers 125V 250V	EACH
34 B 691	7196-K1#	G	6.0 3.0	1.07
34 B 519	7208K4†	H	6.0 3.0	.82
34 B 548	8411K4	F	.75 .25	.36
34 B 631	8411K6†	F	.75 .25	.36
34 B 547	8411K8†	F	.75 .25	.26
34 B 549	8440K2	F	3.0 1.0	.74
34 B 541	8440K3*	F	3.0 1.0	.84
34 B 515	7190K1†	H	6.0 3.0	.96
34 B 518	7199K2††	H	6.0 3.0	1.74

ON-OFF PLATE



Type 827-228F3. Designed to fit slot in threaded stem of toggle switches. Mounts vertically. Shpg. wt. for 10, 10 oz. 30¢
35 B 671, 10 for..... 30¢

LIGHT-DUTY TYPES—PLASTIC

Rugged, all-plastic construction for resistance to moisture. Have maximum insulation for added safety. Fast operating. Solder-lug terminals; $\frac{1}{2}$ " stem length. U.L. and C.S.A. Listed. Av. shpg. wt., 3 oz.

SPST

Stock No.	Mfr's Type	Fig.	Ampers 125V 250V	EACH
35 B 663	8280K20	A	 3	.52
35 B 664	8281K16	A	6 3	.60

SPDT

35 B 665	8282K18	D	3 1	.66
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DPST

35 B 666	8360K12	D	 3	.95
35 B 667	8370K12	D	6 3	1.02

DPDT

35 B 668	8373K12	D	6 3	1.18
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HEAVY-DUTY TYPES

For control of moderate horsepower motors, etc. Have screw terminals; $\frac{1}{2}$ " threaded stem and length. All U.L. Listed except 8825K5 (Fig. P), which is JAN S-23; rated 20 amps @ 28 v. DC. 3 oz.

DPST

Stock No.	Mfr's Type	Ampers 125V 250V	EACH
34 B 545	7320K3	16 8	1.00
34 B 516	7360K8	15 10	1.74
34 B 517	7402K4	$1\frac{1}{2}$ hp 20	2.47

SPST

34 B 520	7321K3	16 8	1.00
34 B 714	7361K5	15 10	1.74

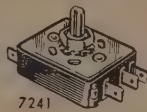
DPDT

35 B 669	8680K2	 5	3.17
34 B 715	8690K2	15 10	3.84
34 B 555	8825K5	20	1.27

ROTARY AC-DC AND AC SWITCHES



8122



7241



7011

For fans, air conditioners, etc. Types 7011K1, 7012K4 are AC-DC; screw terminals; $\frac{3}{4}$ " stem. Types 8122K4, 8123K4 are AC; solder-lug terminals; $\frac{3}{4}$ " stem. 7241K2 is AC; has "quick connect" $\frac{1}{4}$ " terminals; $\frac{5}{16}$ " stem length. U.L./C.S.A. Listed. 6 oz.

Stock No.	Mfr's Type	Action	Ampers 125V 250V	EA.
35 B 658	7011K1	2 on, 1 off	5 2	1.05
35 B 659	7012K4	3 on, 1 off	5 2	1.10
35 B 660	8122K4	2 on, 1 off	3	.45
35 B 661	8123K4	3 on, 1 off	3	.48
35 B 662	7241K2	DPDT	1 hp 15	1.32

AC TOGGLE SWITCHES

LIGHT-DUTY TYPES

Slow make and break switches rated at 6 amps @ 125 volts and 3 amps @ 250 volts, except Type 7140K6, 3 amps @ 125 volts. *Center-off positions. Have threaded stem diameter of $\frac{1}{2}$ "; stem length, $1\frac{1}{2}$ ", except $1\frac{1}{8}$ ". †Screw terminals; ‡solder terminals. All are U.L. Listed. Av. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Action	EACH
34 B 640	7580K4†	K	SPST	.52
34 B 641	7580K6†	K	SPST	.45
34 B 522	7140K6††	M	SPDT	.50
34 B 642	7581K4††	L	SPDT	.60
34 B 643	7581K6††	L	SPDT	.49
34 B 644	7582K4†	L	SPDT	.60
34 B 645	7582K6†	L	SPDT	.49
34 B 646	7590K4†	N	DPST	.81
34 B 647	7590K6†	N	DPST	.66
34 B 648	7591K4††	P	DPDT	.96
34 B 649	7591K6††	P	DPDT	.73
34 B 689	7592K4†	P	DPDT	.96
34 B 690	7592K6†	P	DPDT	.73

STANDARD-DUTY TYPES

Slow make, slow break switches. Rated 10 amps @ 250 volts AC and 15 amps @ 125 volts AC. *Center-off. All have $\frac{1}{2}$ " dia. threaded stem, $1\frac{1}{2}$ " long. †Screw terminals; ‡solder terminals. U.L. Listed. Wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Action	EACH
34 B 591	7500K14†	K	SPST	.60
34 B 534	7501K13†	K	SPST	.52
34 B 592	7502K13*†	L	SPDT	.71
34 B 796	7503K13*†	L	SPDT	.60
34 B 593	7504K4†	L	SPDT	.71
34 B 536	7505K4†	L	SPDT	.60
34 B 594	7560K5†	N	DPST	.96
34 B 537	7561K4†	N	DPST	.88
34 B 596	7562K4*†	P	DPDT	1.18
34 B 539	7563K4*†	P	DPDT	.96
34 B 595	7564K6†	P	DPDT	1.18
34 B 538	7565K5†	P	DPDT	.96
34 B 543	7611K2†	R	3PST	1.66
34 B 523	7613K2*†	R	3PST	2.04
34 B 798	7615K2†	R	3PST	2.04

"ROCKETTE" APPLIANCE SWITCHES



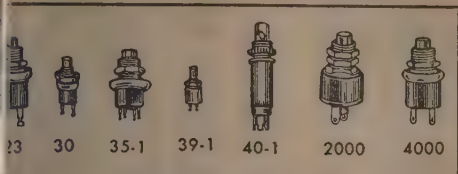
Attractive switches made of durable, molded white nylon. Compact, only $1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ ", including flanges and terminals. "Quick-connect" faston terminals; †screw terminals.

Rated 15 amps at 125 volts or 10 amps at 250 volts AC. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Action	EACH
35 B 699	8144K7*	SPST	.59
35 B 339	8144K8†	SPST	.66
35 B 718	8142K7*	DPST	.91
35 B 540	8142K8†	DPST	1.04

Rotary, Pushbutton, Slide, Lock and Knife Switches

GRAYHILL MINIATURE SWITCHES



PUSHBUTTON SWITCHES

ged, momentary contact, pushbutton switches with solder-lug terminals. Normally open types (indicated by n.o. in table w) have red buttons. Normally closed types (indicated by n.c. in table below) have black buttons.

23. Miniature, over 500,000 operations. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH
970	23-1	SPST n.o.	1/4	1 3/4 x 1/2"	2 1/2"	.85

30. Subminiature, over 1 million operations. Wt., 2 oz.

967	30-1	SPST n.o.	1/10	5/8 x 3/8"	1 1/4"	.95
966	30-2	SPST n.c.	1/10	5/8 x 3/8"	1 1/4"	.95

35. Miniature, over 100,000 operations. Wt., 3 oz.

964	35-1	DPST n.o.	1/2	1 1/4 x 5/8"	3 1/4"	1.20
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39. Ultra-miniature, over 1 million operations. Wt., 2 oz.

968	39-1	SPST n.o.	1/10	3/8 x 1/4"	1 1/4"	1.00
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40. Miniature Button Light, over 500,000 operations. 2 oz.

031	40-1	SPST n.o.	1	1 1/2 x 7/8"	2 5/8"	2.00
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2000. Snap-Action, over 25,000 operations. Wt., 3 oz.

872	2201	SPST n.o.	10	1 5/8 x 7/8"	3 1/4"	1.95
873	2202	SPST n.c.	10	1 5/8 x 7/8"	3 1/4"	1.95

4000. Silent-Action, over 100,000 operations. Wt., 3 oz.

870	4001	SPST n.o.	1	1 1/2 x 5/8"	3 1/4"	.70
871	4002	SPST n.c.	1	1 1/2 x 5/8"	3 1/4"	.70

NEW SERIES 19 POWER TAP SWITCHES

single-pole, single-deck switches with a rating of amps at 125 volts, resistive, 30° indexing. All e solder terminals. .125" dia. accommodates 12 gauge wire. U.L. Listed. Life in excess of 100 cycles. Av. shpg. wt., 5 oz.



Stock No.	Mfr's Type	Positions	EACH	Stock No.	Mfr's Type	Positions	EACH
339	19001-2UL	2	2.80	36 B 344	19001-7UL	7	3.30
340	19001-3UL	3	2.90	36 B 345	19001-8UL	8	3.40
341	19001-4UL	4	3.00	36 B 346	19001-9UL	9	3.50
342	19001-5UL	5	3.10	36 B 347	19001-10UL	10	3.60
343	19001-6UL	6	3.20	36 B 348	19001-11UL	11	3.70

G.E. DRY-REED SWITCHES

al for use in electro-magnetic relays, position indicators, etc. contain a pair of magnetic reeds, positioned in a glass tube. All are normally open. Shock and vibration resistant. ed for minimum of 20 million operations. 500 volt breakdown. @ cycles rms. Min. insulation resistance, 500,000 megohms. -65° +150°C. Resonant frequency, 925 cps. Maximum length, less ls, 2.10"; with leads, 3.21"; max. dia., 0.215". Wt., 2 oz.

978	Type 2DR15. 15 volt amps	.70¢
977	Type 2DR50. 50 volt amps	1.25

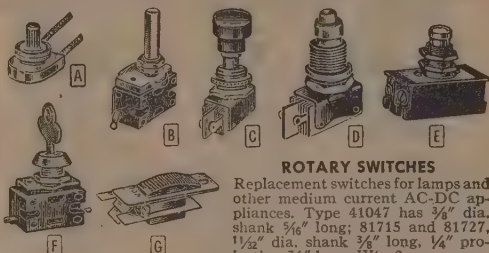
EAGLE KNIFE SWITCHES

arged, low-cost knife switches for heavy duty applications in power circuits. For motors, transers, mixing machines, or stage lighting. Pro-smooth, easy action. All units rated 25 amps. v. AC; with screw terminals and bakelite base pt Type 617, porcelain. Av. wt., 5 oz.



Stock No.	Mfr's Type	Action	Size	TWO FOR
884	612	SPST	1 3/8 x 1"	.38
886	613	SPDT	2 3/8 x 1"	.44
887	614	DPST	1 3/8 x 1 1/2"	.64
888	615	DPDT	2 3/8 x 1 3/8"	.72
889	617	SPST	3 1/8 x 1 1/8"	.48

ARROW-HART AND HEGEMAN SWITCHES



ROTARY SWITCHES

Replacement switches for lamps and other medium current AC-DC appliances. Type 41047 has 3/8" dia. shank 3/8" long; 81715 and 81727, 1 1/2" dia. shank 3/8" long, 1/4" projection 7/8" long. Wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Action	Terminals	Amps 125 V/250 V	EACH
34 B 165	41047	A'	SPST	6" Leads	3 1	.45
34 B 141	81715	B	SPST	Solder	6 3	1.27
34 B 144	81727	B	DPDT	Solder	6 3	1.86

PUSHBUTTON SWITCHES

Momentary contact types, except *push-on push-off. AC-DC, except iAC only. Have 1/32" dia. shanks; 3/8" long, except Type 80630, 7/8" long. Solder-lug terminals, except *screw-type. 3 oz.

Stock No.	Mfr's Type	Fig.	Action	Button Color	Amps	Volts	EACH
34 B 159	3391-GL	C	SPST-n.o.	Black	1	125+	.74
34 B 119	3392	D	SP2	Black	1	125+	.73
34 B 124	3392-AE	C	SP2	Black	1	125+	.91
34 B 129	3392-AE	C	SP2	Red	1	125+	.91
34 B 118	3392	D	SPST-n.o.	Black	3	250	1.02
34 B 152	80630§	E	DPST-n.o.	Black	16	125	1.49
34 B 160	86710	D	SPST*	Black	3	250	.94
34 B 161	86710-C	C	SPST*	Red	3	250	1.12
34 B 162	86710-C	C	SPST*	Black	3	250	1.12

LOCK SWITCHES

F Type 81715-L. For use on power tools, appliances, etc. SPST contacts, rated 3 amps @ 250 volts; 6 amps @ 125 volts. Sleeve diameter, 1/32". Fits panels to 3/32" thick. 1 1/4 x 2 3/8 x 3/32". Switch must be open to remove key. Shpg. wt., 2 oz.

34 B 156							1.63
34 B 128	Exro Key. For above.						2 for 32¢

F Type 81715-LE. Same as 81715 L switch above, but key is removable in open or closed position.

34 B 158							1.63
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SPST "ON-OFF" SLIDE SWITCH

G Type 81569. Rated 3 amps at 250 volts; 6 amps at 125 volts. Has screw-type terminals. Takes 1 3/8 x 3/8" mtg. hole. Plate is 2 3/8 x 3/4". U.L. Listed. Shpg. wt., 2 oz.

34 B 153							96¢
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CONTINENTAL-WIRT ECONOMY SLIDE SWITCHES

AC-DC switches for transmitters, receivers, instruments, etc. Have cadmium-plated steel housing, except *nickel-finished. Solder-lug terminals. 3/8 x 1 1/2", except 81574, 1 3/8 x 1 1/2"; G126, 1 x 1 1/2". U.L. Listed. Av. wt., 3 oz.



Stock No.	Mfr's Type	Action	Amps 125 V	2 FOR
34 B 492	G725	DPST	0.5	.34
36 B 148	G726	DPDT	0.5	.38
34 B 424	G126	DPDT	0.5	.66
35 B 015	G723	SPST	.75	.22
35 B 017	G724	SPDT	.75	.22
35 B 023	G323	SPST	3.0	.24
35 B 025	G324	SPDT	3.0	.24
35 B 920	G325	DPST	3.0	.44
35 B 921	G326	DPDT	3.0	.44
35 B 922	G369	3PDT	3.0	.76
33 B 853	81574*	SPST	3.0	.48
35 B 026	G633	SPST	6.0	.32
35 B 027	G624	SPDT	6.0	.32
35 B 033	G625	DPST	6.0	.44
35 B 084	G626	DPDT	6.0	.46

EAGLE FLUSH-MOUNT PUSHBUTTON SWITCH

Type 188. Momentary contact. 6-leaf spud secures switch in 3/4" hole. Ideal for signaling bells, lights, etc. 1/2" shank depth. Screw terminals. Contacts are SPST, normally open. Pearl button. Shpg. wt., 2 oz.

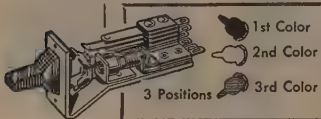
55 B 196				2 for 68¢
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Switchcraft and Acro Switches

SWITCHCRAFT LEVER AND PUSH SWITCHES

ILLUMINATED LEVER SWITCHES



Series 25000. New illuminated color-coded switches indicate function and switch position. Replace switch and wiring contacts, nickel-silver springs. Silver contacts rated 3 amps, 300 watts max. AC non-inductive. 1 1/2" high, 3/4" wide, 2 1/4" behind panel. With 6-volt lamp and 6 color chips (blue, red, amber, yellow, green, white). Basic contact forms (each section for 3-position switches): 1-A for type 25201 and 25204, 1-C for 25203 and 25306, 2-A for 25308, 2-C for 25206 and 25312, 3-C for 25209. *Mfr. adds suffix L to Type No. to indicate locking type. Non-locking types have spring return. 2 oz.

TWO POSITION TYPES

Mfr's Type	Stock No.		Action	EACH
	Locking Type	Non-Lock- ing Type		
25201	36 B 280	36 B 272	SPST	2.40
25203	36 B 281	36 B 273	SPDT	2.55
25206	36 B 282	36 B 274	DPDT	3.00
25209	36 B 283	36 B 275	3PDT	3.45

THREE POSITION TYPES (Center Off)

25304	36 B 284	36 B 276	DPST	2.70
25306	36 B 285	36 B 277	DPDT	3.00
25308	36 B 286	36 B 278	DPDT	3.30
25312	36 B 287	36 B 279	4PDT	3.60



"LITTEL" SWITCHES

Miniature, non-locking pushbutton type switches for limited space applications. One-piece button and shaft. Red or black button. n.o., means normally open; n.c. means normally closed. Nickel silver contacts; spring sections are insulated, 3/4" threaded stem; 3/4" long. FC low-level currents only. With mounting hardware. Wt., 3 oz.

Stock No.	Mfr's Type	Button Color	Action	EACH
34 B 944	101	Red	SPST n.o.	54¢
34 B 945	102	Red	SPST n.c.	54¢
34 B 946	103	Red	SPDT	60¢
34 B 947	201	Black	SPST n.o.	54¢
34 B 948	202	Black	SPST n.c.	54¢
34 B 949	203	Black	SPDT	60¢

ILLUMINATED "LITTEL-LITE" SWITCHES

New types similar to above, but illuminated pushbutton. Clear plastic button and shaft illuminated by 6 or 28 v. lamp (not supplied, see below). 3 amps at 300 v. max. non-inductive load. With 4 color chips (red, amber, green, yellow). Wt., 4 oz.

Stock No.	Mfr's Type	Action	EACH
34 B 607	211S	SPST n.o.	1.11
34 B 608	212S	SPST n.c.	1.11
34 B 609	213S	SPDT	1.26

LAMPS FOR ILLUMINATED SWITCHES

For use with "Littel-Lite" and "NF-Lite" illuminated pushbutton switches. Series 25000 illuminated lever switches. Wt., 2 oz.

Stock No.	Mfr's Type	Volts	EACH
34 B 601	P-1217	6	.72
34 B 602	P-1218	28	1.20

SWITCH WRENCHES



Special wrenches designed to fit knurled or milled-edge locknuts furnished with toggle, lever and button switches and jacks. Adjustable sleeve on shaft holds nuts tightly. Knurled handle provides sure, firm grip. Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Nut Size	EACH
34 B 605	A-1070	1/4"-32	3.99
34 B 606	A-1071	3/8"-32	3.99

"FF" PUSHBUTTON SWITCHES



Non-locking type with rugged flat frame. Fine silver contacts rated 3 amps, 300 v. max. AC non-inductive. Insulated springs are form-free black button and shaft. 3/8" dia. mtg. shank is 3/8" long. With locknut and washer. 3 oz.

Stock No.	Mfr's Type	Action	EACH
34 B 994	1001	SPST n.o.	.63
34 B 995	1002	SPST n.c.	.63
34 B 996	1003	SPST	.72
34 B 997	1004	DPST	.78
34 B 998	1005	DPST n.c.	.78
34 B 999	1006	DPDT	.93
34 B 969	1009	3PDT	1.26

ILLUMINATED "NF-LITE" SWITCHES



Series 4100. New pushbutton types indicate switching and circuit functions. Rated 3 a., 300 v. max. AC non-inductive. With 4 color chips (red, amber, green, yellow). Need 1/8"-1 1/2" behind panel; mount in 3/4" hole in panels up to 1/4" thick. Less limit, below left. Wt., 4 oz.

Stock No.	Mfr's Type	Action	EACH
34 B 610	4101	SPST n.o.	1.17
34 B 611	4103	SPDT	1.26
34 B 612	4104	DPST n.o.	1.32
34 B 613	4106	DPDT	1.47
34 B 614	4109	3PDT	1.80

ACRO SNAP-ACTION SWITCHES



- Top Quality
- Small in Size
- Shock-Resistant

MINIATURE LIGHT-PRESSURE SWITCHES

Top quality SPDT switches for a wide variety of applications where switches are actuated mechanically. Type 1CMD1-2AXX-A22 has wire leaf actuator; Type 2CMD1-2AXX-A24 has a flat leaf actuator; all others are basic pin.

Stock No.	Mfr's Type	Fig.	Oper. Force	Pre-travel	Basic Switch Size	Amps.	EACH
35 B 009	1MD1-1A	A	3-6 oz.		1 1/2 x 3/4 x 3/4	10	1.4
35 B 019	2MD3-1A	A	6-10 oz.		1 1/2 x 3/4 x 3/4	10	1.4
35 B 020	1CMD1-2AXX	B	20-27 gr.	.040	1 1/2 x 3/4 x 3/4	3	1.4
35 B 021	2CMD1-2AXX	B	33-44 gr.	.040	1 1/2 x 3/4 x 3/4	3	1.4
35 B 024	1CMD1-2AXX-A22	C	2.5 gr.	.750	3/4 x 3/4 x 1 1/2	3	1.7
35 B 030	2CMD1-2AXX-A24	D	4 gr.	.750	2 3/4 x 3/4 x 1 1/2	3	1.7



B SERIES SWITCHES WITH MICRO EQUIVALENT

Popular, long-life replacement micro-switch types shown in table below. All are SPDT with stop button and screw terminals except TB BRD2-5L, with flat base and solder terminals. Table shows operating force and pre-travel necessary to actuate switch. Contacts rated 15 amps 120-240 VAC and 5.0 amp at VDC. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Micro Equiv.	Fig.	Oper. Force	Pre-travel	Basic Switch Size	Amps.	EACH
33 B 968	BRD2-5L	BZ-2RL	E	4-5 oz.	.156"	2 1/2 x 1 1/2 x 1 1/2	10	1.6
33 B 969	BRD2-1A-1S	BZ-2R-A2	F	9-13 oz.	.020"	1 1/2 x 1 1/2 x 1 1/2	10	1.4
33 B 970	BRD2-2M-1S	BZ-2RL2-A2	G	5 oz.	.156"	2 1/2 x 1 1/2 x 1 1/2	10	1.2
33 B 971	BRD2-5L-1S	BZ-2RL-A2	H	5 oz.	.156"	2 1/2 x 1 1/2 x 1 1/2	10	1.7
33 B 972	BRD2-70-1S	BZ-2RD-A2	J	9-13 oz.	.010-.025"	1 1/2 x 1 1/2 x 1 1/2	10	1.7
33 B 973	BRD2-1P-1S	BZ-2RQ1-A2	K	9-13 oz.	.010-.025"	2 1/2 x 1 1/2 x 1 1/2	10	3.5

SNAP-ACTION PUSHBUTTON SWITCHES



Top quality, panel mounting, momentary contact pushbutton switches. Type 3D05-5P is normally open; Type 3D05-5P is normally closed; Type QPD-5031 may be wired either way. All overtravel plunger types with solder lug terminals. Current rating at 125 VAC. Table shows operating force and pre-travel necessary to actuate switch. With mtg. hardware. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Fig. Type	Oper. Force	Pre-travel	Action	Size	Amps	EACH
35 B 328	QPD-5031	L	8 oz.	.006"	SPDT	3/4 x 3/4 dia.	10	1.5
35 B 028	3D05-5P	M	10-13 oz.	.045-1"	SPST	3/4 x 3/4 dia.	12	1.7
35 B 029	3D05-5P	M	10-13 oz.	.03-.06"	SPST	3/4 x 3/4 dia.	12	1.7

TYPE 900 MINIATURE "BUTTON" SWITCHES



Unusually small, momentary-action pushbutton switches completely enclosed in metal housing. Each has black plastic button. Type 913 is 1/2" hole, and mount behind panel. Type 933 3/8" long, fits 1/4" hole, mounts from front of panel. Both switches are rated 250 ma, 300 watts max. AC non-inductive, have SPST act and type 1-C basic contact form. Shpg. wt., 2 oz.

35 B 418, Type 913. 35 B 420, Type 933.

CORD OR PENDANT-TYPE PUSHBUTTON SWITCH



Precision, hand-held pushbutton switch for remote control of recording lights, counters and many other devices. Consists of a momentary-contact, spring-return "button" switch (as shown above) threaded into end of a nickel-plated sleeve. Contacts are rated at 250 ma, 300 watts max. AC non-inductive. Has SPST action and type 1-C basic contact form. Size is 1/2" dia. and 2 3/4" long. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Button	EACH
35 B 422	E903	Red	1.5
35 B 424	E913	Black	1.5

Centralab and Mallory Switches

CENTRALAB ROTARY AND LEVER SWITCHES

UNIVERSAL AND INTERCOM SWITCHES

poli-insulated rotaries. Cadmium-plated. Breakdown v. AC. Rated 2.75 amps at 15 v. DC, 230 ma at 115 v. AC. Non-shorting; 30° indexing. Shaft, 2 1/4" x 1/4" dia. C, 7/8"-32 thread 3/4" long. 1/4" or 1/2" shaft diameter. Active in 2 pos., spring return in 3rd. With knob, 4 oz.

Stock No.	Type	Description	EACH
34 B 085	1450†	4PDT	1.65
34 B 087	1451†	4PDT, spring-return	1.98
34 B 054	1488*	6P, 3 pos., spring-return	3.60
34 B 055	1489*§	6P, 3 pos.	3.60

ercom and Radio Switches. Phenolic, cadmium-plated switches. In ratings and shafts as above. For radio-phones, P.A. input selectors, er/speaker switching, etc. Silver-plated spring brass clips. Shorting 2†. Non-shorting, 13 active pos. with 5 a., 110 v. AC switch. 1472 is AM-FM-phono selector. 5 oz.

Stock No.	Type	Description	EACH
34 B 080	1460	SPDT phono-radio switch.	
34 B 081	1461	SP-3-position selector	1.08
34 B 082	1462	DPDT bandswitch	
34 B 083	1463*	SPDT spring return	
34 B 084	1464*	DPDT spring return	1.08
34 B 235	1472*	DP-3 position	
34 B 073	1465†	SP-4-position W/AC sw.	1.80

LEVER-ACTION PHENOLIC SWITCHES

low-cost phenolic-insulated switches featuring on rotor design. Rated 2.75 amps at 15 v. DC, 230 ma at 115 v. AC. Silver-plated clips and contacts. 2†. Non-shorting, 13 active pos. With knob, hdwe. 4 oz.

Shorting		Non-Shorting		Positions	Action	EACH
Stock No.	Type	Stock No.	Type			
B 021	1452	34 B 026	1454	3	SPDT Pos.	1.26
B 022	1453	34 B 027	1455	3	SPDT Mom.	1.26
B 023	1466	34 B 028	1467	3	SPDT Pos./Mom.	1.26
B 025	1456	34 B 030	1457	2	DPDT Mom.	1.44
B 024	1459	34 B 029	1458	2	DPDT Pos.	1.44

Switch Mounting Plates. For single or multiple mounting of switches. 3/4" spacing between switches. Black-wrinkle fish steel. *No. of switch openings. Av. wt., 4 oz.

Stock No.	Mfr's Type	*Openings	Size	Mtg. Ctrs.	EACH
34 B 050	P-1755	2	3/4x2 3/8"	2 3/8"	
34 B 051	P-1756	2	1 1/2x2 3/8"	3 3/8"	
34 B 052	P-1757	3	2x2 3/8"	2 1/2x2 3/8"	
34 B 053	P-1758	4	3x2 3/8"	1 1/2x2 3/8"	.30

MALLORY GANG SWITCHES

3100J AND 3200J SINGLE-GANG SWITCHES

compact, enclosed, low-voltage switches. Have 2" notched shaft; 7/8" threaded bushing, 3/8" long. 1/4" bar knob and nut. All 1 1/2" base dia. types are adjustable stops. For band switching, etc. See dial plates listed below. Shpg. wt., 4 oz.

Shorting		Non-Shorting		Poles	Positions	Base Dia.	EACH
Stock No.	Type	Stock No.	Type				
34 B 300	3115†	34 B 350	3215†	1	1	1 1/2"	1.02
34 B 301	3121†	34 B 351	3212†	1	12	1 1/2"	
34 B 302	3122†	34 B 352	3222†	2	2	3 1/2"	
34 B 303	3123†	34 B 353	3223†	2	3	1 1/2"	
34 B 304	3126†	34 B 354	3226†	2	6	1 1/4"	
34 B 305	3134†	34 B 355	3234†	3	4	1 1/2"	1.05
34 B 306	3142†	34 B 356	3242†	4	2	1 1/2"	1.05
34 B 307	3143†	34 B 357	3243†	4	3	1 1/4"	1.05
34 B 308	3111†	34 B 358	3211†	1	2-17	1 1/8"	1.56
34 B 309	3129†	34 B 359	3229†	2	3	2-9	1 1/8"
34 B 310	3136†	34 B 360	3236†	3	2-6	1 1/8"	1.56
34 B 311	3163†	34 B 361	3263†	6	2-3	1 1/8"	1.56

DIAL PLATES

wide selection of dial plates for switches, potentiometers and rheostats. Types 372 to 390 for switches 100L, 1300L and for 3100J and 3200J with 1 1/2" bases; 453 to 486 for switches 3100J and 3200J with 1 1/2" bases. Etched aluminum. Black background. 7/8" dia. 7/8" hole. Shpg. wt., 2 oz.

30° SPACING FOR 1 1/4" BASE SWITCHES				20° SPACING FOR 1 1/2" BASE SWITCHES			
Type	Marking	Type	Marking	Type	Marking	Type	Marking
72	1 to 2	384	Off 1 to 4	453	1 to 3	474	Off 1 to 4
73	1 to 3	385	Off 1 to 4	454	1 to 4	475	Off 1 to 5
74	1 to 4	386	Off 1 to 6	455	1 to 5	476	Off 1 to 6
75	1 to 5	387	Off 1 to 7	456	1 to 6	477	Off 1 to 7
76	1 to 6	388	Off 1 to 8	457	1 to 7	478	Off 1 to 8
77	1 to 7	389	Off 1 to 9	458	1 to 8	479	Off 1 to 9
78	1 to 8	390	Off 1 to 10	459	1 to 9	480	Off 1 to 10
79	1 to 9			460	1 to 10	481	Off 1 to 11
80	1 to 10			461	1 to 11	482	Off 1 to 12
81	1 to 11			462	1 to 12	483	Off 1 to 13
82	1 to 12			463	1 to 13	484	Off 1 to 14
83	Off 1 to 3			473	Off 1 to 3	486	Off 1 to 16

34 BB 600, Specify Type. 34 BB 650, Specify Type. 12

MINIATURE STEATITE SWITCHES

PA-2000 Series. Ceramic rotary switches. Rated 2.75 amps at 15 v. DC, 230 ma at 115 v. AC. 1 1/2"x1 1/2" dia.; 1/2" spacing between sections. 30° indexing. Shaft 2 1/4" FMS long, 1/4" dia.; bushing 3/8"-32 thread, 3/4" long. *2042 has 1 off and 9 progressive shorting pos. Adjustable stop. With 1 1/4" pointer knob, hdwe. 6 oz.

Shorting		Non-Shorting		Sections	Total Poles	Pole Pos.	EACH
Stock No.	Type	Stock No.	Type				
35 B 095	*2042	34 B 921	2001	1	1	2-10	2.16
34 B 900	2000	34 B 922	2002	1	1	2-12	2.37
34 B 901	2002	34 B 923	2003	1	2	2-6	2.37
34 B 902	2003	34 B 924	2004	1	2	2-12	3.39
34 B 903	2006	34 B 925	2007	1	3	2-5	2.37
34 B 904	2008	34 B 926	2009	3	3	2-12	4.32
34 B 905	2010	34 B 926	2011	2	4	2-6	3.39
34 B 906	2012	34 B 927	2013	4	4	2-12	5.19
34 B 907	2014	34 B 928	2015	1	5	2-12	2.37
34 B 908	2016	34 B 929	2017	5	5	2-12	6.21
34 B 909	2018	34 B 930	2019	1	6	2	2.37
34 B 910	2020	34 B 931	2021	2	6	2-5	3.39
34 B 911	2022	34 B 932	2023	3	6	2-6	4.32
34 B 914	2024	34 B 933	2025	6	6	2-12	7.20
34 B 913	2026	34 B 934	2027	4	8	2-6	5.19
34 B 915	2028	34 B 935	2029	3	9	2-5	4.32
34 B 916	2030	34 B 936	2031	2	10	2-6	3.39
34 B 939	2038	34 B 940	2039	3	15	2-3	4.68
34 B 942	2040	34 B 941	2041	3	18	2	4.68

MINIATURE PHENOLIC SWITCHES

PA-1000 Series. Rated 2.75 amps @ 15 v. DC, 230 ma @ 115 v. AC. 30° indexing adjustable stop. 1 1/2"x1 1/2" diameters; 1/2" spacing between sections. Shaft, 2 1/4" FMS x 1/4"; bushing 3/8"x1/2". With 1 1/4" pointer knob and mtg. hdwe. 5 oz.

Shorting		Non-Shorting		Sections	Total Poles	Pole Pos.	EACH
Stock No.	Type	Stock No.	Type				
35 B 050	1000	35 B 065	1001	1	1	2-11	1.80
35 B 051	1002	35 B 066	1003	1	2	2-5	1.80
35 B 052	1004	35 B 067	1005	2	2	2-11	2.58
35 B 053	1006	35 B 068	1007	1	3	2-3	1.80
35 B 054	1008	35 B 069	1009	3	3	2-11	3.24
35 B 055	1010	35 B 070	1011	1	4	2	1.80
35 B 056	1012	35 B 071	1013	2	4	2-5	2.58
35 B 057	1014	35 B 072	1015	4	4	2-11	3.81
35 B 059	1018	35 B 074	1019	2	6	2-3	2.58
35 B 060	1020	35 B 075	1021	3	6	2-5	3.24
34 B 975	1024	35 B 077	1025	2	8	2	2.58
35 B 063	1026	35 B 078	1027	4	8	2-5	3.81

1200L AND 1300L MULTI-GANG SWITCHES

Versatile multi-gang switches for servicing and industrial applications. Have 1 fixed and 1 adjustable stop, silver-plated contacts, solid silver rotor contact slugs, and phosphor-bronze springs. 3- and 4-gang spaced 1 1/4" all others 1/2". 2" notched shaft. Shorting-type make before break. Require 7/8" mtg. hole. With bar knob and hardware, less mtg. plate. Use 34 BB 600 plates, below left. *With additional "off" positions with all circuits open. Av. wt., 8 oz.

Shorting		Non-Shorting		Gangs	Total Poles	Pos. Per Pole	EACH
Stock No.	Type	Stock No.	Type				
34 B 201	1211L	34 B 251	1311L	1	1	2-11	
34 B 202	1215*	34 B 252	1315*	1	2	2	2.10
34 B 203	1213L*	34 B 253	1313L*	1	3	2-3	
34 B 204	1212L*	34 B 254	1312L*	1	4	2	
34 B 206	1221L	34 B 256	1321L	2	2	2-11	
34 B 207	1225L*	34 B 257	1325L*	2	4	2-5	
34 B 208	1223L*	34 B 258	1323L*	2	6	2-3	2.58
34 B 209	1222L*	34 B 259	1322L*	2	8	2	
34 B 211	1231L	34 B 261	1331L	3	3	2-11	3.24
34 B 212	1235L*	34 B 262	1335L*	3	6	2-5	3.24
34 B 214	1241L	34 B 264	1341L	4	4	2-11	3.81
34 B 215	1245L*	34 B 265	1345L*	4	8	2-5	3.81
34 B 216	1251L	34 B 266	1351L	5	5	2-11	4.11
34 B 217	1255L*	34 B 267	1355L*	5	10	2-6	4.53
34 B 218	1261L	34 B 268	1361L	6	6	2-11	4.83
34 B 219	1266L	34 B 269	1366L	6	12	2-6	5.52

151L "HAMS SWITCH"

Ideal for switching a single meter between 1 to 5 circuits. 2 sections, 5 positions—1 pole per section. Non-shorting; 2 1/4" spacing between sections; 60° indexing. Rated 1000 VAC, 1500 VDC. 3/4" mtg. depth. 3/8"x3/4" shaft. With knob, nut, and lockwasher. Shpg. wt., 6 oz.

34 B 318..... 2.70

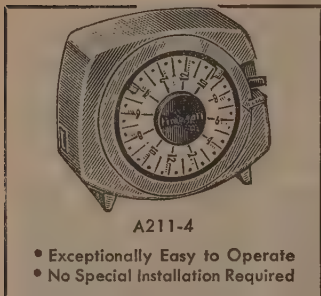
13124L 24-POINT TAP SWITCH

Single circuit, 24 position, non-shorting switch. Continuous rotation. 3/8" bushing. 2" grooved shaft. Useful in test equipment. 15° indexing between positions. With knob, dial plate and hardware 6 oz.

34 B 295..... 2.76

Intermatic Clock-Timers and Time Switches

CLOCK TIMERS AND CONTROLS



A211-4

- Exceptionally Easy to Operate
- No Special Installation Required

MODEL A211-4 "TIME-ALL"

Time-control switch for office, store or home. Excellent for controlling lights or appliances. Has manual control with automatic reset. Turns lights "on" and "off" at pre-set times—gives house a "lived in" look to discourage prowlers. To revert to control cycle, simply release manual control from "permanent" position.

Min. "on" time, 15 min.; max., 23 hrs., 45 min. AC outlet for equipment to be controlled. Switch contacts will handle 15 amps, 1875-watt load. Complete with 6-ft. cord, plug and instructions. Desert Sand Plaskon case. 5x4x2½". U.L. Listed. For 110-120 volts, 60 cycle AC. Shpg. wt., 2 lbs.

78 B 311.....7.97

Model A221-4. Same as above, but designed to handle 7 amps, 875-watt load. Excellent for use in such light-duty applications as the automatic control of hi-fi music systems, home lights, etc. Dove Gray Plaskon case. Shpg. wt., 2 lbs.

78 B 397.....7.29



A401-4

MODEL A401-4 "CLOCK-TIMER"

Combination clock and switch. For automatically turning appliances "on" and "off" at preset times. Min. "on" time, ¼ hour; max., 5¼ hours. SPST switch rated 15 amps, 1875 watts. AC receptacle for plugging in appliances. Desert Sand Plaskon case. 6-ft. cord. 4½x4¼x2¼". U.L. Listed. For 110-120 volts, 60 cycle AC. Shpg. wt., 2 lbs.

78 B 343. (Includes F.E.T.).....8.77



A501

MODEL A501 "MUSIC-MINDER"

Combination electric clock and automatic time switch that turns "on" appliances within a 12 hour period. Alarm may be set to go off 10 minutes later. 0-60 min. sleep switch lets you fall asleep to music. Handles 1875 watts. Desert Sand Plaskon case. 6-ft. cord. 4½x4¼x2¼". U.L. Listed. For 110-120 v., 60 cycle AC. 2 lbs.

78 B 267. (Includes F.E.T.).....8.77



A301-4

MODEL A301-4 "TIME-MINDER"

Combination electric clock and signal timer. Times any pre-set interval from 1 min. to 1 hour. Pleasant-toned buzzer sounds at end of interval and continues until manually shut off. No installation—just plug in. Desert Sand Plaskon case. U.L. Listed. 6-ft. cord. 4½x4¼x2¼". For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.

78 B 342. (Includes F.E.T.).....6.57



RC5421-4

MODEL RC5421-4 CLOCK-TIMER

- All Controls Are Front-Mounted
- Styled in Soft White, Tan and Brown.

An unmounted combination electric clock and automatic time switch. Use it for controlling radios, TV sets, fans, air conditioners or any other appliance drawing up to 15 amps of current.

Will automatically turn "on" electrical appliances at any pre-set time within a 12 hour period; if desired, a pleasant sounding alarm may be set to go off 10 minutes later. A sleep-switch permits selecting a timed "on cycle" of up to 60 minutes in duration. Unit can be manually operated too.

All controls are located on the front panel. Highly attractive—has brass bezel, soft white and brown dial, tan knobs. Handles 1875 watts. 3½" square; 2" deep. With crystal. Has four ¼" mtg. holes on 3¼" ctrs. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 1 lb.

78 B 499. (Includes F.E.T.).....6.94

MODEL RC5321-2 CLOCK-TIMER

Not illustrated. An unmounted unit, nearly identical to RC5421-4 above, but sleep switch control and on-off-alarm knob are located on front panel, time and alarm-set shaft are at rear. Shpg. wt., 1½ lbs.

78 B 498. (Includes F.E.T.).....6.43



Type T171

"SKIPPER" TIME SWITCHES

Handle up to 12 On-Off operations—Can be set to skip one or more days.

U.L. Listed

Permit "skipping" control cycle. Have 2 dials: a time dial and a day dial. To skip any days, small skipping screws are inserted into the day dial. "On" and "off" trippers are set in the time dial. Special "cutout" tripper advances the day dial every 24 hours. Up to 12 operations per day can be obtained by adding trippers. Range: minimum "on" or "off", 1 hour; maximum, 23 hours. Silver contacts are rated 40 amps (4375 watts, tungsten) at 125 volts. 7¼x5x3". For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

Stock No.	Type	Action	EACH
78 B 315	T171	SPST	11.02
78 B 316	T173	DPST	12.32
78 B 317	T175	SPDT	12.32

TRIPPERS AND SKIPPING SCREWS

Type 107T19R. On-Cutout Trippers. For "Skipper" types only. 3 oz.

78 B 319. EACH.....20¢

Type 79T8A. Skipping Screws. For "Skipper" types only. 8 oz.

78 B 364. Pkg. of 2.....9¢

Type 107T8A. "On and Off" Trippers. For intermatics, except T185. 2 oz.

78 B 324. EACH SET.....26¢



T101



P101



T185



T1975E

POPULAR TIME SWITCHES

TYPE T101 TIME SWITCH

SPST time switch turns equipment "on" and "off" once in 24 hours. With extra trippers (use Type 107T8A, at left) will operate up to 12 times a day. Minimum time between settings is 1 hour. Contacts handle 40 amps (4375 watts, tungsten rated) at 125 volt, 60 cycle. 5x3x7½". U.L. Listed. For operation from 110-120 volts, 60 cycle AC. Shpg. wt. 4 lbs.

78 B 322.....7.77

Type T103. As above, but DPST.

78 B 321.....9.07

Adapter Kit. Makes above units portable. Supplied complete with 6 ft. cord, plug, etc. 10 amps. Shpg. wt., 1 lb.

78 B 323.....11.13

TYPE P101 TIME SWITCH

Portable type, SPST plug-in time switch. Easily set for from 1 to 12 on-off operations per day. Minimum "on" or "off" time, 1 hr.; maximum, 23 hrs. May also be manually operated. Capacity: 10 amps at 125 volts. 5x3x7½". U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

78 B 314.....9.07

TYPE T185 TIME SWITCH

Provides up to 12 "on-off" cycles daily, with extra trippers below. Each cycle is independently controlled and can vary from 5-60 min. Minimum interval between cycles, 1½ hrs. Can be used as SPST normally open or SPST normally closed; or SPDT. Perfect for applications requiring more than one "on-off" cycle of the same or different duration in a 24-hour period. Rated 40 amps (4375 watts, tungsten rated), 125 v., AC. With 3 trippers (1 for each "on-off" cycle) 7¼x5x3". U.L. Listed. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

78 B 313.....11.67

Extra Trippers. For above. 4 oz.

78 B 336.....84¢

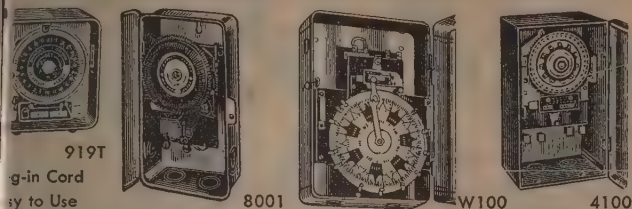
NEW TYPE T1975E PROGRAM TIMER

96 trippers for 48 "on" and 48 "Off" operations every 24 hours. Minimum interval, 15 min. "Skipper" feature for omitting operation on selected days. SPDT switch, rated 20 amps at 480 v., 60 cycle AC. Industrial type motor. U.L. Listed. 7¼x5x3". For 110-120 v., 60 cycle AC. Wt., 3¼ lbs.

78 B 378.....24.02

Timers, Wall, and Foot Switches

TORK TIME SWITCHES AND PROGRAM TIMER



MODEL 919T PORTABLE SWITCH

be set for "on" period from 20 minutes to 3 hours, 15 minutes daily to nearest minute interval. Use extra trippers (below) for more "on-off" cycles. SPST. 15 s. 5½x4½". U.L. Listed. For 110-120 v. 60 cycle A.C. Shpg. wt., 4 lbs.

919T.....9.72
Trippers. For above. 3 oz.
309.....PER PAIR 45¢

MODEL 8001 PROGRAM TIMER

96 tabs, one for each 15 minute interval he day. Any tab may be set to either "on" or "off" position. Repeats every 24 hours. SPDT switch rated 20 amps. Size, 5½x4½". U.L. Listed. For 110-120 v. 60 cycle A.C. Shpg. wt., 4 lbs.

8001.....18.17

MODEL 100 "SEVEN-DAY" TIME SWITCH

offers high flexibility and programmed seven-day control. Large-size dial face permits minimum timing interval of only 60 minutes, and unique "on" and "off" trippers provide easy, accurate setting of up to 28 repetitions per week. Levers permit manual rating without disturbing settings. Lug terminals take wire sizes up to #6. Quick-out Size, 12x8x4½". U.L. Listed. SPST switch contacts rated 40 amps. For 110-120 v. 60 cycle A.C. Wt., 8 lbs.

100.....19.47

MODEL 4100 "HOURMASTER"

Heavy-duty SPST time switch has many uses around the home, hobby shop, garage and farm—serves well in industrial applications, too. Any hour or sequence of hours may be set to include an identical "on" cycle each hour you choose—up to 24 hours. "On" cycle can be varied from 2 to 35 minutes. Sequence repeats every 24 hours. Rated at 40 amps. U.L. Listed. 8½" high, 5½" wide, 4½" deep. For 110-120 volts, 60 cycle A.C. Shpg. wt., 4 lbs.

4100.....19.47

NEW MODEL A-100

(Not illustrated.) SPST switch automatically turns electrical equipment or lights "on" and "off" once every 24 hours. Minimum setting is 20 minutes. May be easily set to skip from 1 to 6 days per week automatically, or operated manually without disturbing the automatic settings. Up to 6 additional trippers can be added. Rated at 40 amps. 8½x5½x4½". For 110-120 v., 60 cycle A.C. Shpg. wt., 4 lbs.

A-100.....7.77



DELAYED-ACTION SWITCH

For porches, garages, stairwells, etc. Light stays on full minute after switched-off. Fits std. switch box 10 amps, 125 V.A.C. U.L. Listed. Wt., 5 oz.

35 B 526.....2.17

WALL SWITCHES by EDCO

3-POSITION DIMMER SWITCH

Full-on, off, dim. Dims lamps to 30% of normal. Ideal for night-lights. Fits std. box. For incandescent bulbs. 10 amps, 125 V.A.C. U.L. Listed. 6 oz.

35 B 390.....2.89

FOOT SWITCHES



TYPE NF-2 "NEPTUNE" SWITCH by RECORA

operated switch frees hands for other work. Waterproofed—use indoors or out. SPDT contacts rated 10 amps at 110 v. Molded plastic. With 6-ft. cord, less plug. ¾x6x8". 2½ lbs.

NF-2.....5.49

B 292. Type PSN-2. As above, but plug-in design. With cord and g. plus std. AC receptacle. Shpg. wt., 2½ lbs.

PSN-2.....6.27

"SWITCHMATS" by RECORA

Similar to "Neptune" NF-2 above, except larger. Concealed, nonly-open SPDT switch. Sensitive to 5 lbs. force. For 110 v. nonactive loads up to 100 watts. ¾" thick. 10-ft. cord.

SM 355, 14x23". Shpg. wt., 14 lbs.

SM 356, 18x30". Shpg. wt., 24 lbs.

SM 357, 18x30". Shpg. wt., 24 lbs.

MODEL T-51-S "TREADLITE" by LINEMASTER

compact switch for low current loads. SPDT momentary-contact switch rated 7 amps at 110-250 v. Skidproof rubber base. 1x2½x¾". Shpg. wt., 7 oz.

T-51-S.....2.75

B 384. Model T-51-SC. As above, but with 6-ft. cord and series g. Shpg. wt., 1 lb.

T-51-SC.....4.00

MODEL 491-SC "COMPACT" by LINEMASTER

lightweight, momentary-contact switch with SPDT contacts rated 7 amps at 115 v. or 230 v., A.C. Steel housing, skid-proof base. 6-ft. cord with series plug. 2½x2½x1½". ½ lb.

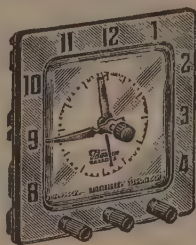
491-SC.....4.75

TELECHRON CLOCK-TIMER



Electric Clock and Automatic Time Switch

Turns on TV, Radio, Hi-Fi Music System, or Appliance At Pre-set Time



Excellent value in a famous-name combination electric clock and automatic time switch. Use for radio, hi-fi, air conditioner, coffee-maker, etc. SPST switch rated 15 amps at 125 volts A.C.

One switch-control permits selecting manual "on" and "off" operation, or automatic appliance control at pre-selected time within 12 hours. Automatic operation can also be employed with a signal alarm sounding 10 minutes after "on" cycle begins. Other switch control permits selecting a definitely timed "on" cycle of up to one hour duration—can be used with radio as a "sleep switch." Attractively styled in rich gold color. Size, 3½" square; 1½" deep. For 110-120 volts, 60 cycle A.C. Shpg. wt., 2 lbs.

78 B 438, Includes F.E.T.....5.98

"MARK-TIME" TIMERS



MODEL 29001 "CLOCK WATCHER"

Spring-driven timer in attractive sculptured design. Times up to 60 min. with bell tone. White finish. Shpg. wt., ¾ lb.

78 B 380.....2.96

78105 PROFESSIONAL TIME-SWITCH

Turns off AC at any pre-set time up to 1 hr. Built-in AC receptacle. 10 amps. 3½x3x3½". 110-125 v., 60 cycle A.C. 1 lb.

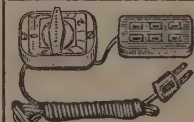
78 B 263.....5.96

78 B 264. Model 78174 Photo Time-Switch. As above, but for periods to 60 seconds. Adjustable stop for repeat settings.....6.71

STANDARD BUILT-IN TIME SWITCHES

SPDT switch easily set for "off-type" or "on-type" use. Easy installation. With hdwe. 28 amps, 125-240 V.A.C. U.L. Listed.

Stock No.	Type	Timing Range	Dia. x Depth	Lbs.	EACH
78 B 259	74701	0 to 15 min.		1	
78 B 261	74702	0 to 30 min.		1	
78 B 268	74703	0 to 60 min.	2½x1½x¾"	1	5.96

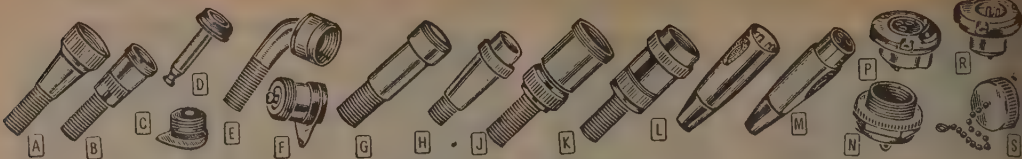


TEC-4 AUTOMATIC TIMER

Serves as both extension cord and time switch. Insert up to 3 devices into outlets and set knob for up to 4-hr. "on" cycle. Shuts-off automatically. 10 amps. 5-ft. cord. Wt., 1 lb.

78 B 291.....5.21

Amphenol Microphone, PC, and Cable Connectors



MICROPHONE CONNECTORS

Most microphones listed in this catalog are supplied less connector. Choose from this complete selection of Amphenol connectors—you'll find one to meet any application. Precision construction assures con-

nections free from noise, leaks or shorts. Cable plugs are equipped with spring-type cord protectors. Wire splicing is made using one 75-MCM and one 75-MCM connector for a strong, reliable joint.

SERIES 75 SINGLE-BUTTON CONTACT TYPES

Standard connectors $\frac{1}{8}$ " 27 threads; $\frac{1}{16}$ " mounting holes. Indicates miniature connectors that are approximately half the size and weight of standard counterparts with same specifications. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	EACH
41 H 958	75-MC1P	A	Combination cable plug & jack	.46
41 H 959	75-MC1M	B	Cable plug	.42
41 H 965	*75-PC1M	C	Chassis receptacle, non-shorting	.37
41 H 962	75-MC1P	D	Phone plug adapter	.50
41 H 957	75-MC1FA	E	90° angle cable jack	1.28
41 H 969	*75-CL-PC1M	F	Chassis receptacle, closed circuit	.52
42 H 658	75-1	A	Straight plug	.46
42 H 659	75-2	B	Cable jack	.29
42 H 660	75-3	F	Locknut receptacle	.33

SERIES 80 SINGLE- AND DOUBLE-PIN CONTACT TYPES

For shielded cables, single and two-conductor coaxial cables, etc. Center contacts are pin and socket type. *Single-contact type. †Polarized, double-contact type. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	EACH
42 H 084	*80-C	N	Female chassis receptacle	60¢
42 H 085	*80-C1	N	Male chassis receptacle	60¢
42 H 080	*80-F	G	Female cable jack	56¢
42 H 662	*80-F1	H	Female cable plug	66¢
42 H 081	*80-M	G	Male cable plug	64¢
42 H 663	*80-M1	G	Male cable jack	52¢
42 H 082	*80-MC2F	H	Female cable jack	62¢
42 H 664	*80-MC2F1	H	Female cable plug	70¢
42 H 083	*80-MC2M	G	Male cable plug	68¢
42 H 665	*80-MC2M1	G	Male cable jack	52¢
42 H 085	*80-PC2F	N	Female chassis receptacle	60¢
42 H 666	*80-PC2M	N	Male chassis receptacle	60¢

S Type 75-CCC1 Cap and Chain. Seals open chassis units against dirt and dust. Chain has eye for screwing to panel. Used with both series 75 and 80 receptacles. Shpg. wt., 3 oz.

40 H 381.....44¢

CHASSIS AND CABLE CONNECTORS



Series 31 BNC Coaxial Connectors. Small weather proof connector with bayonet coupling. Low voltage, single contact. *For 50-ohm RG-55/U and RG-58/U cables. †For 70-ohm RG-59/U, FG-62/U and RG-71/U. Plugs mate with 31-003 or jacks. Av. shpg. wt., 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	EACH
40 H 391	UG-88/U	31-002*	T	Plug	.87 .76
40 H 391	UG-88/U	31-003†	T	Jack	.95 .82
40 H 396	UG-260/U	31-012†	T	Plug	.93 .83
40 H 397	UG-261/U	31-015†	T	Jack	.98 .85
40 H 395	UG-262/U	31-011†	.....	Panel jack	1.01 .88
40 H 392	UG-290/U	31-003*	.....	Receptacle	.80 .70
40 H 399	UG-291/U	31-001*	.....	Panel jack	1.00 .87

Series 82 N Coaxial Connectors. Low-voltage. 70 ohms. 3 oz.

40 H 312	UG-58/U	82-24	W	Receptacle	.96 .84
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Series 83 UHF Coaxial Connectors. Small single contact. Widely used for RF applications. All exposed metal plated. Wt., 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	EACH
40 H 357	UG-106/U	83-1H	X	For RG/U 8, 9, 10, 11, 12, 13, 63, 65	.21 .18
40 H 354	M-358, 49199	83-1T	Y	T adapter	2.08 .18
40 H 355	PL-258, 49191	83-1J	Z	Straight adapter	.91 .79
40 H 356	PL-259, 49190	83-1SP	Z	For RG/U 8, 9, 10, 11, 12, 13, 63, 65	.58 .51
40 H 352	SO-239, 49194	83-1R	AA	Receptacle chassis type	.59 .52

Solderless Type UHF Plug Connectors. Av. shpg. wt., 3 oz.

40 H 509	83-850	BB	Plug for RG/U 11	1.08 .94
40 H 510	83-851	BB	Plug for RG/U 8, 9, 10, 11, 12, 13, 63, 65	.94 .82

Allied stocks the complete line of Amphenol connectors; some are not listed in this catalog. Write, wire, or phone us for information.

SERIES 91 3- AND 4-CONTACT TYPES

Microphone connectors for portable equipment. Polarized to prevent incorrect insertion. Clamps eliminate stress on soldered connections. *3-contact type. †4-contact type. Shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	EACH
41 H 970	*91-MC3F	J	Female cable jack	84¢
42 H 667	*91-MC3F1	J	Female cable plug	92¢
41 H 971	*91-MC3M	K	Male cable plug	88¢
42 H 668	*91-MC3M1	K	Male cable jack	80¢
41 H 972	*91-PC3F	N	Female chassis receptacle	72¢
42 H 669	*91-PC3M	N	Male chassis receptacle	82¢
41 H 977	*91-MC4F	K	Female cable plug	90¢
42 H 670	*91-MC4F1	K	Female cable jack	98¢
41 H 976	*91-MC4M	K	Male cable plug	90¢
42 H 672	*91-MC4M1	J	Male cable jack	82¢
41 H 978	*91-PC4F	N	Female chassis receptacle	74¢
42 H 673	*91-PC4M	N	Male chassis receptacle	82¢

S Type 91-CCC3 Cap and Chain. Protects chassis jacks from dust. Used for series 91 microphone connectors. Shpg. wt., 3 oz.

42 H 674.....38¢

SERIES 91 "QUIK" 3- AND 4-CONTACT TYPES

Push together; released by slight pressure on lock button. Gold-plated (over silver) bronze contacts. Incorrect insertions are impossible because connectors are polarized. Satin nickel-plated, zinc-alloy shells. *3-contact type. †4-contact type. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	EACH
42 H 065	*91-853	L	Male cable plug	1.3¢
42 H 066	*91-854	M	Female cable plug	1.5¢
42 H 067	*91-855	R	Male chassis receptacle	1.00
42 H 068	*91-856	P	Female chassis receptacle	2.2¢
42 H 069	*91-857	L	Male cable plug	1.4¢
42 H 070	*91-858	M	Female cable plug	1.9¢
42 H 071	*91-859	R	Male chassis receptacle	1.04
42 H 072	*91-860	P	Female chassis receptacle	2.2¢

SERIES 91 MINIATURE CABLE CONNECTORS

Compact connectors for shielded or unshielded cables. Polarized contacts prevent incorrect insertion. For cables up to $\frac{1}{4}$ " dia. Last letter in Type No. indicates: L, long (1 1/2"); S, short (1 1/4"). Last fig. in Type No. denotes contacts. PCG—chassis type. Figs. CC and EE are female types; Fig. DD, male type. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	EACH	Stock No.	Type	Fig.	EACH
40 H 320	91-MPP3L	CC	38¢	40 H 574	91-MPPM4S	DD	34¢
40 H 321	91-MPP3S	CC	36¢	40 H 570	91-MPPM5L	DD	39¢
40 H 322	91-MPP4L	CC	42¢	40 H 571	91-MPPM6L	DD	42¢
40 H 325	91-MPP4S	CC	35¢	40 H 330	78-PCG-3	EE	20¢
40 H 326	91-MPPM3L	DD	35¢	40 H 331	78-PCG-4	EE	24¢
40 H 327	91-MPPM3S	DD	33¢	40 H 332	78-PCG-5	EE	24¢
40 H 323	91-MPPM4L	DD	35¢	40 H 333	78-PCG-6	EE	29¢

SERIES 143 PRINTED CIRCUIT CONNECTORS

Precision connectors for printed circuit networks. Printed circuit board acts as male part of connector. Molded of diallyl phthalate dielectric; has gold-plated contacts. Accept .061" to .071" printed circuit boards. *Polarizing keys. Av. shpg. wt., 2 oz.

Stock No.	Type	143-Contacts	EACH	Stock No.	Type	143-Contacts	EACH
41 H 090	006-01	6	1.23	40 H 501	018-01	18	1.31
40 H 503	010-01	10	.83	40 H 502	022-01	22	1.46
40 H 504	015-01	15	1.08	42 H 676	953	*	.01

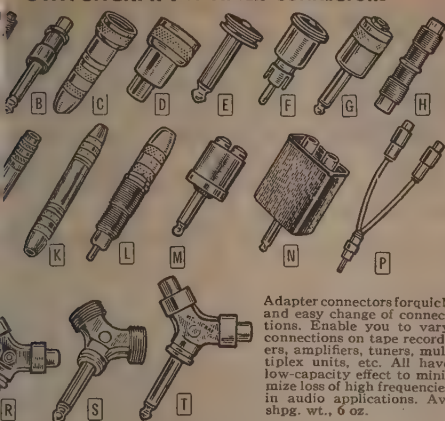
SERIES 133 PRINTED CIRCUIT PLUGS

Matching plugs for 143 series above. Have molded diallyl phthalate dielectric body, cadmium-plated brass guide pins and end caps. Brass contacts with gold-over-alloy plating. Rugged contacts are not subject to damage by mating or unmating at an angle. Average voltage rating. 2300 volts rms at sea level; current rating meets or surpasses any printed circuit board requirement. Av. shpg. wt., 2 oz.

Stock No.	Type	133-Contacts	EACH	Stock No.	Type	133-Contacts	EACH
42 H 856	006-21	6	1.77	41 H 086	015-21	15	2.30
41 H 085	010-21	10	2.00	41 H 087	018-21	18	2.45
42 H 857	012-21	12	2.45	41 H 088	022-21	22	2.66

Switchcraft, Cannon, and Lab-Tronics Connectors

SWITCHCRAFT ADAPTER CONNECTORS



Adapter connectors for quick and easy change of connections. Enable you to vary connections on tape recorders, amplifiers, tuners, multiplex units, etc. All have low-capacity effect to minimize loss of high frequencies in audio applications. Av. shpg. wt., 6 oz.

Kit No.	Type	Fig.	Description	E.A.
460	343	A	Phono jack input; phone plug output. Built-in limiting resistor for cord.	1.17
382	345A	B	Phone plug out; phono jack in.	.75
768	332A	C	2-cond. phone jack input to female or male mike output; main body 1/4".	1.05
769	334A	D	Phono jack input to female microphone connector output.	.75
657	44	E	Adapts Amphenol Type 75-MC1F or 75-MC1F-A connectors for use with standard 1/4" phono jacks.	.30
773	338A	F	Phono plug to male mike connector.	.60
940	364	G	2-cond. "uni-jack" input; standard phone plug out.	.87
774	349A	H	Phono plug coupler mates with phono plug at each end; gray plastic.	.60
779	369	J	Std. 2-cond. phone plug to 2-cond. short extension jack (used on late models Revere and Wollensak recorders).	1.20
938	361	K	2-cond. phone jack coupler mates with phone plug at each end.	1.35
770	336A	L	2-conductor phone jack input to phono plug output; main body 1/4".	.87
649	346	M	Tip jack input to phone plug output.	1.29
939	340	N	2 standard phone jack inputs connected in parallel to 2-cond. phone plug output.	2.25
983	330F1	P	Flexible V-connector; 2 phono jacks to std. phono plug. Shielded, 4".	1.20
984	330F2	.....	Same as above, but phono plug and phono jack to phono plug.	1.20
992	330F3	.....	Same as above two types, but 1 phono plug to two phono plugs.	1.20
764	330F	R	2 phono jacks connected in parallel to standard phono plug.	1.05
994	330M	S	V-adapter, 2 male mike connectors to standard 2-cond. phone plug.	1.14
229	330PJ	T	Y-adapter; standard phone plug to 2 phono jacks.	1.14

HANDY ADAPTER KIT

331A. Save time, eliminate poor connections and soldering jobs. Kit contains 12 of the most frequently used adapters and one interconnecting in a handy compartmented plastic includes one each of Types 25A1F25, 330F1, 332A, 334A, 336A, 336B, and two each of 44 and 349A. wt., 1 lb. 8.82



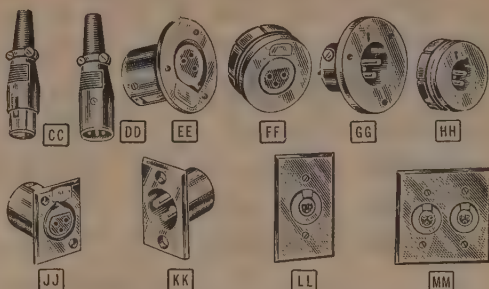
LAB-TRONICS JACK ADAPTERS, CONNECTORS



C400 allows rapid connection of two lines with pin plug end. P55A is a connection of standard pin plug to phono jack. MP is pin plug to male connector. Av. shpg. wt., 4 oz.

Kit No.	Type	Fig.	Description	E.A.
803	A75A	W	2 Phono Pin Jacks; Phono Pin Plug	1.18
800	C400	X	Double-ended Phono Pin Jack	.59
801	P55A	Y	Phono Pin Jack; Phone Plug	.73
805	A750	Z	Phone Jacks; Phono Pin Plug	1.03
806	A753	AA	Phone Jack; Phono Pin Jack	1.03
802	MP	BB	Microphone; Phono Pin Plug	.59

CANNON XLR PLUGS AND RECEPTACLES



Audio connectors with clamp and resilient socket insulator. Minimize mechanical interference and reduce noise. Feature satin-nickel finish, integral cable clamp, neoprene cable relief and push-action latchlock. First number in Type column indicates number of contacts. -2G in Type No. indicates 2 gang, 3-contact types rated at 15 amps; 4-contact types rated at 10 amps. *Wall-type receptacles; panel-type receptacles. †Indicates steel shell, others are die-cast zinc. Av. shpg. wt., 4 oz.

STRAIGHT CORD PLUGS

Stock No.	Mfr's Type	Fig.	Description	EACH
40 H 790	XLR-3-11C	CC	Female (socket insert)	1.29
41 H 212	XLR-4-11C	CC	Female (socket insert)	1.64
40 H 983	XLR-3-11SC	CC	Female (socket insert)	3.49
40 H 984	XLR-4-11SC	CC	Female (socket insert)	3.55
40 H 791	XLR-3-12C	DD	Male (pin insert)	1.13
41 H 213	XLR-4-12C	DD	Male (pin insert)	1.20
40 H 985	XLR-3-12SC	DD	Male (pin insert)	2.68
40 H 986	XLR-4-12SC	DD	Male (pin insert)	2.87

WALL AND PANEL RECEPTACLES

Stock No.	Mfr's Type	Fig.	Description	EACH
41 H 214	XLR-3-13†	EE	Female (socket insert)	1.85
41 H 215	XLR-4-13†	EE	Female (socket insert)	1.93
41 H 216	XLR-3-13‡	FF	Female (socket insert)	1.14
41 H 217	XLR-4-13‡	FF	Female (socket insert)	2.20
41 H 218	XLR-3-14*	GG	Male (pin insert)	.83
41 H 219	XLR-4-14*	GG	Male (pin insert)	.87
41 H 223	XLR-3-14†	HH	Male (pin insert)	1.73
41 H 224	XLR-4-14†	HH	Male (pin insert)	1.87
40 H 792	XLR-3-31*	JJ	Female (socket insert)	1.93
41 H 225	XLR-4-31*	JJ	Female (socket insert)	1.93
40 H 793	XLR-3-32*	KK	Male (pin insert)	1.10
41 H 226	XLR-4-32*	KK	Male (pin insert)	1.22
40 H 987	XLR-3-35*	LL	Female (socket insert)	4.03
40 H 988	XLR-3-35-2G*	MM	Female (socket insert)	7.42

SWITCHCRAFT JACKS AND PLUGS



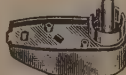
Easy-to-install phono jacks and pin plugs. 3501FR is for rear panel mounting in 1/4" hole—fits panel up to 1/4" thick. 3501FP is for front panel mounting in 1/4" hole—fits panel up to 1/4" thick. 3501F and 3501M are std. 2-cond. audio connectors. 371 adapts phono jack for mounting in panels up to 1 1/2" thick; use with 3501FP. 3503 extension jack is shielded, has removable 1/2" O.D. shell with cable clamp. 3502 has 1/2" O.D. easy-grip, shielded handle. 3501MC is unshielded, has 3/8" O.D. shell with cable clamp. Av. shpg. wt., 3 oz.

44 H 900. Type 3501 F Jack (Fig. NN)	EACH 24c
44 H 902. Type 3501FP Jack (Fig. PP)	EACH 21c
41 H 574. Type 3501 F Jack (Fig. RR)	2 FOR 18c
44 H 904. Type 371 Jack Adapter (Fig. SS)	EACH 57c
41 H 778. Type 3503 Extension Jack (Fig. TT)	EACH 36c
41 H 762. Type 3502 Plug (Fig. WW)	EACH 30c
41 H 763. Type 3501 MC Plug (Fig. XX)	2 FOR 18c
41 H 599. Type 3501 M Plug (Fig. YY)	2 FOR 12c

G-C ELECTROCRRAFT SOLDERLESS PHONO PLUGS

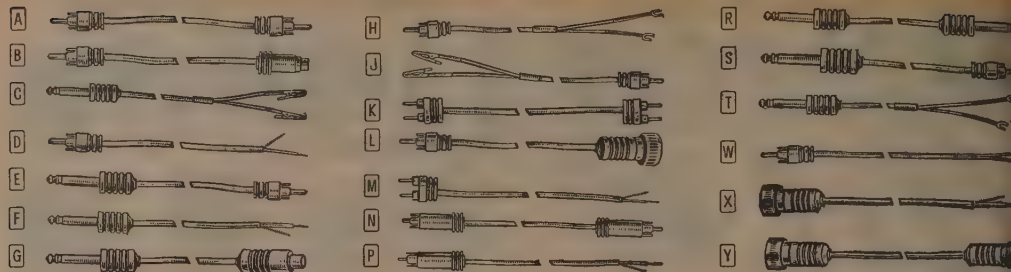
Handy right-angle design for fast, positive connections. Plastic shells. For std. shielded cable. 1/2" O.D. Overall length, 1 1/2". Pin dia., 1/8". Wt., 2 oz.

Stock No.	Mfr's Shell Color	Stock No.	Mfr's Shell Color
46 H 117	33-776 Gray	46 H 120	33-782 Yellow
46 H 118	33-778 Black	46 H 121	33-784 Blue
46 H 119	33-780 Red		



EACH.....21¢

Connector Cables, Connectors, Plugs



LAB-TRONICS AUDIO CONNECTOR CABLES

Invaluable accessories for trouble-free installation of hi-fi components. Cables are soldered prior to molding for noise-free connections.

Stock No.	Type	Fig.	Description	E.A.
44 H 807	C101	A	18"; pin plug on each end	.53
44 H 808	C102	A	36"; pin plug on each end	.62
44 H 810	C103	A	72"; pin plug on each end	.79
44 H 811	C104	A	120"; pin plug on each end	1.09
44 H 813	C202	B	36"; pin plug one end, jack other end	.71
44 H 815	C203	B	72"; pin plug one end, jack other end	.88
44 H 816	C204	B	120"; pin plug one end, jack other end	1.18
44 H 817	P7210*	C	10"; phone plug one end, clips other end	1.15
44 H 818	P7220*	C	20"; phone plug one end, clips other end	1.44
44 H 819	C106	D	36"; pin plug one end, bare other end	.47
44 H 820	C107	D	72"; pin plug one end, bare other end	.65
44 H 821	C108	D	120"; pin plug one end, bare other end	.94
44 H 823	C4406	E	72"; pin plug one end, phone plug other end	1.09
44 H 825	C4410	E	10"; pin plug one end, phone plug other end	1.32
44 H 826	C4415	E	15"; pin plug one end, phone plug other end	1.62
44 H 827	C4006	F	72"; phone plug one end, bare other end	.94
44 H 828	C4010	F	10"; phone plug one end, bare other end	1.18
44 H 829	C4015	F	15"; phone plug one end, bare other end	1.47
44 H 830	C4006	G	72"; phone plug one end, jack other end	1.68
44 H 831	C4010	G	10"; phone plug one end, jack other end	1.85
44 H 832	C4015	G	15"; phone plug one end, jack other end	2.15
44 H 833	P6110*	H	10"; pin plug one end, lugs other end	.62
44 H 835	P6120*	H	20"; pin plug one end, lugs other end	.91
44 H 836	P6110*	J	10"; pin plug one end, clips other end	.85
44 H 837	P6220*	J	20"; pin plug one end, clips other end	1.15

Dual pin plugs on Figs. K and M are spaced $\frac{1}{8}$ " (standard) for stereo use. Bare ends tinned. *Indicates unshielded. Av. shpg. wt., 5 oz.

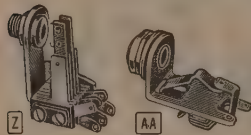
Stock No.	Type	Fig.	Description	E.A.
44 H 838	SP8403	K	36"; dual pin plug on each end	2.71
44 H 839	SP8410	K	10"; dual pin plug on each end	2.1
44 H 840	E803	L	36"; mike connector one end, pin plug other	.8
44 H 841	E806	L	72"; mike connector one end, pin plug other	1.0
44 H 843	SP8003	M	36"; dual pin plug one end, bare other end	1.6
44 H 844	SP8010	M	10"; dual pin plug one end, bare other end	2.2
44 H 812	S3415	N	15"; pin plug on each end	.27
44 H 822	S3015	P	15"; pin plug one end, bare other end	1.2
44 H 845	P7310*	R	10"; phone plug on each end	1.3
44 H 846	P7320*	R	20"; phone plug on each end	1.6
44 H 847	P7410*	S	10"; phone plug one end, pin plug other end	1.0
44 H 848	P7420*	S	20"; phone plug one end, pin plug other end	1.3
44 H 849	P7106*	T	72"; phone plug one end, lugs other end	.7
44 H 850	P7110*	T	10"; phone plug one end, lugs other end	.9
44 H 851	P7120*	T	20"; phone plug one end, lugs other end	1.2
44 H 852	P6010*	W	10"; pin plug one end, bare other end	.5
44 H 853	P6020*	W	20"; pin plug one end, bare other end	.8
44 H 854	E1106	X	72"; mike connector one end, bare other end	.9
44 H 855	E1110	X	10"; mike connector one end, bare other end	1.2
44 H 856	E1125	X	25"; mike connector one end, bare other end	2.3
44 H 857	E906	V	72"; male mike conn. one end, female other	1.2
44 H 859	P6012	V	12"; male mike conn. one end, female other	1.4
44 H 859	E925	V	25"; male mike conn. one end, female other	2.5
44 H 860	P501*	...	10"; lugs on each end	.4
44 H 861	P502*	...	20"; lugs on each end	.7

PERMONITE PHONO PIN PLUG AND JACK



Standard pin plug and jack universally used in most audio equipment. Take single conductor shield cable. Av. shpg. wt., 2 oz. 5 per pkg. 26¢
46 H 098, Pin Plug, PER PKG. 32¢
46 H 099, Pin Jack, PER PKG. 32¢

MALLORY PHONE JACKS



JUNIOR PHONE JACKS

Z Compact jacks for standard $\frac{1}{4}$ " phone plugs. Require only $\frac{1}{8}$ " behind panel. Cadmium-plated frames; nickel-plated brass shank, springs, mtg. hardware. $\frac{3}{16}$ " dia. threaded shank for panels $\frac{1}{4}$ " thick. Silver contacts. *Conductors in mating plug. Wt., 3 oz.

Stock No.	Mfr's Type	*Cond.	Circuit	Diagram	EACH
41 H 054	701	2	Open	I	45¢
41 H 058	702B	3	Open	III	57¢
41 H 052	703	2	Open	V	60¢
41 H 059	703B	3	Closed-Transfer 1	IV	60¢
41 H 060	704B	3	Closed-Transfer 2	VI	69¢

MIDGET AND INFANT PHONE JACKS

AA Extremely small "Midget" and "Infant" type jacks for limited-space applications. All take $\frac{1}{8}$ " phone plugs. "Midget" type jacks require only $\frac{1}{16}$ " mounting space behind panel. "Infant" type requires only $\frac{1}{8}$ " behind panel. Cadmium-plated steel frames with nickel-plated brass shank, springs, and mounting hardware. $\frac{3}{16}$ " threaded shank for mounting in panels up to $\frac{1}{4}$ " thick. *Column headed "Cond." indicates number of conductors in mating plug. All are "Midget" type except A-1 "Infant" type jack. (†Not illustrated). Av. shpg. wt., 2 oz.

Stock	Mfr's Type	*Cond.	Circuit	Diagram	EACH
41 H 050	A-1	2	Open	I	33¢
41 H 051	A-2	2	Open Shorting	VII	48¢
41 H 053	A-2A	2	Closed	II	57¢
41 H 056	A-3A	2	Closed-Transfer 1	VIII	66¢

Allied stocks a complete line of Mallory as well as other popular manufacturers plugs, jacks, cable extensions, and connectors. See pages in this section or refer to index in back of book.

G-C MOTOROLA-TYPE AND STD. PLUGS AND JACKS



Fig. BB. Antenna lead-in plug to connect antenna lead-in to radio. Pin dia., $\frac{1}{8}$ ". Fig. CC. Jack to mate with Fig. BB plug. $\frac{1}{4}$ " max. ctrs. Fig. DD. Jack to mate with DD. plugs. $1\frac{1}{2}$ x1".

Stock No.	Type	Fig.	Description	2 for
41 H 152	1740	BB	Motorola-Type Plug	20¢
41 H 144	1741	CC	Motorola-Type Jack	26¢
41 H 179	33-800	DD	Double Phone Jack	16¢

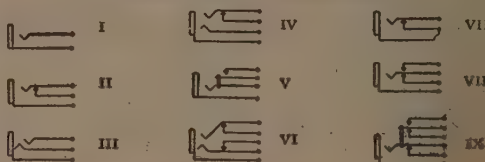
MALLORY LONG-FRAME PHONE JACKS



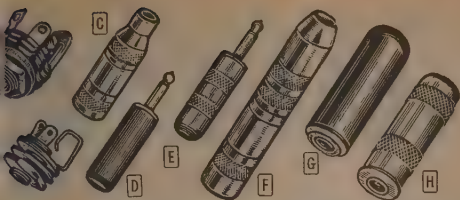
Industrial-type, long-frame jacks offering a variety of switch combinations. All take standard $\frac{1}{4}$ " phone plugs. Types Nos. 1, 2, 2A, and (Fig. EE) are $3\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{1}{2}$ " wide. Mount in panels up to $\frac{1}{4}$ " thick by means of $\frac{1}{8}$ " diameter threaded shank. XP types (Fig. FF) are $3\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{1}{2}$ " wide. Have $\frac{1}{8}$ " diameter smooth shank $\frac{1}{4}$ " long and mount with screw and nut. *Column headed "Cond." indicates number of conductors in mating plug. †Diagram indicates switching arrangement (show in column below). Av. shpg. wt., 4 oz.

Stock No.	Type	*Cond.	Circuit	†Diagram	EACH
41 H 745	1	2	Open	I	45¢
41 H 746	2	2	Shorting	VII	57¢
41 H 747	2A	2	Closed	II	57¢
41 H 055	S	2	Closed & Transfer	IX	90¢
41 H 748	XP1	2	Open	I	63¢
41 H 744	XP2B	2	Closed	II	90¢
41 H 749	XP3B	2	Transfer	VIII	90¢

JACK SCHEMATIC DIAGRAMS



Switchcraft Plugs and Jacks



"LITTEL-JAX" PHONE JACKS

Take standard 1/4" phone plugs, except S-11, which takes S250, S280 and 385 plugs, and C-12B which takes 480 Military-type "Littel-Plug" 3/8" dia. 1 1/4" overall, with a 3/8" dia. threaded shank, 1/2" L-11 and L-12A have bushing 3/8" long. SCC indicates single end circuit; OC indicates open circuit. Av. shpg. wt., 3 oz.

Stock No.	Type	Diag.	Cond.	Circuit	JAN Type	EACH
H 955	C-11	I	2	OC	JJ-034	24¢
H 959	S-11	I	2	OC		36¢
H 961	L-11	I	2	OC		30¢
H 963	12A	II	2	SCC		27¢
H 965	C-12A	II	2	SCC	JJ-089	45¢
H 967	L-12A	II	2	SCC		33¢
H 969	L-12B	III	3	OC		33¢
H 971	C-12B	III	3	OC	JJ-033	42¢
H 973	13B	IV	3	SCC		45¢

"TINI-JAX" SUB-MINIATURE PHONE JACKS

Extra-small 2-conductor jacks for "Tini-Plugs." 1/4" long; fit 1/4" hole. OC, open circuit; CC, closed circuit. Av. shpg. wt., 2 oz.

H 983	41	I	2	OC		24¢
H 985	42A	I	2	CC		27¢

Type 125 "Tini-Extension Jax." Two-conductor; solder lug terminals. Mates with "Tini-Plugs," below. Wt., 2 oz.

H 472.....73¢

"TINI-PLUGS" SUB-MINIATURE PHONE PLUGS

Use with "Tini-Jax." 1 1/4" overall length. 2-conductor. Wt., 2 oz.

Stock No.	Type	Fig.	Ter.	Handle	EACH
H 518	740	D	Screw	Black	45¢
H 519	743	D	Screw	Red	45¢
H 520	750	D	Solder	Black	42¢
H 521	755	D	Solder	Red	42¢
H 522	770	E	Screw	Shielded	63¢
H 523	780	E	Solder	Shielded	60¢

"EXTENSION JAX" CABLE EXTENSION JACKS

Standard 1/4" plugs. 1 1/2" O.D.; 2 1/2" long. 121 and 131 1/2" O.D.; 2 1/2" long. All are open circuit type. Shpg. wt., 3 oz.

Stock No.	Type	Fig.	Cond.	Ter.	Handle	EACH
H 571	80	G	2	Screw	Black	.69
H 578	88	G	2	Solder	Black	.60
H 572	120	H	2	Screw	Shielded	.93
H 473	121	F	2	Solder	Shielded	.96
H 474	131	F	3	Solder	Shielded	1.20
H 571	130	G	3	Screw	Black	.93
H 577	1230	H	3	Screw	Shielded	1.17

ULTRA-MINIATURIZED PLUGS AND JACK

TR Series "Micro-Plugs." Handy ultra-miniaturized plugs featuring uniformity, dependability and quality construction as famous "Littel-Plugs" "Tini-Plugs." Microscopic size, only 1/4" long; 1/4" O.D.—1/2" the size of standard plugs! Have nylon insulation between tip and sleeve circuit; sleeve terminal is brass. Tip and sleeve are nickel-plated machined brass. All have sleeve circuit clamp; accommodate cables to 1/4" dia. With screw on anodized aluminum die. Shpg. wt., 2 oz.

H 554, Type 850, Black Handle.....	45¢
H 555, Type 855, Red Handle.....	45¢
H 556, Type 880, Natural Handle.....	45¢

TR-2A "Micro-Jax." For "Micro-Plugs." 2 cond. sgl. closed circuit; also usable as 2 cond. open circuit. Requires .190" hole. 2 oz.

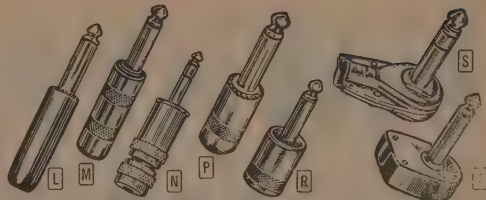
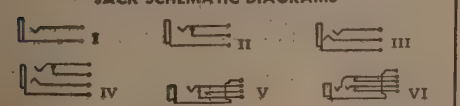
H 995.....27¢

THICK-PANEL PHONE JACKS

Extra long bushings for use in panels up to 1/2" thick. Ideal for wall paneling, hi-fi installations, etc. Suitable for microphone use. Requires 1/4" mounting hole. Wt., 2 oz.

H 908, Type 151, 2 Conductor.....	81¢
H 912, Type 162B, 3 Conductor.....	90¢

JACK SCHEMATIC DIAGRAMS



"LITTEL-PLUG" PHONE PLUGS

Small-size phone plugs; fit standard 1/4" phone jacks, except Types S250 and S280, 206" sleeve for S-11 "Littel-Jax" and for Bell and Howell equipment; Type R280 which has short sleeve for Revere recorders. Plugs with solder terminals feature built-in cable clamp; others do not include cable clamp. Metal (shielded) handles are nickel plated brass; for use in microphone or other input leads as well as outputs requiring continuous shield. All handles are 1 1/2" long and 1/2" in diameter. Av. shpg. wt., 4 oz.

Stock No.	Type	Fig.	Cond.	Color	Terminals	EACH
41 H 553	240	L	2	Black	Screw	45¢
41 H 554	245	L	2	Red	Screw	45¢
41 H 611	250	L	2	Black	Solder	42¢
41 H 614	S250	L	2	Black	Solder	45¢
41 H 612	255	L	2	Red	Solder	42¢
41 H 555	260	L	3	Black	Screw	72¢
41 H 566	267	O	3	Black	Solder	63¢
41 H 573	270	M	2	Metal	Screw	63¢
41 H 613	280	M	2	Metal	Solder	60¢
41 H 556	R280	M	2	Metal	Solder	75¢
41 H 719	S280	M	2	Metal	Solder	60¢
42 H 567	290	M	3	Metal	Solder	84¢
41 H 617	297	M	3	Metal	Solder	76¢

STANDARD PHONE PLUGS

Standard-size 1/4", 2- and 3-conductor type phone plugs to fit all standard jacks. Metal (shielded), red or black molded bakelite handles; 2 1/2" long, 1/4" diameter, except 41" long. Type 170 is similar to 70, but has 2-piece handle with cable clamp for 1/4" cable. No. 190A is similar to 90, but has same handle as 170. Metal (shielded) handle types are for use in microphone or input cables and wherever continuous shielding is required. Av. shpg. wt., 5 oz.

41 H 557	40	L	2	Black	Screw	.45
41 H 447	45	L	2	Red	Screw	.63
41 H 558	60	L	3	Black	Solder	.53
41 H 559	70	M	2	Metal	Screw	.72
41 H 560	90*	R	3	Metal	Solder	.78
41 H 561	160*	R	2	Metal	Screw	.54
41 H 562	170	N	2	Metal	Screw	.99
41 H 563	190A	N	3	Metal	Solder	1.17

"LUG-PLUG" PHONE PLUGS

Low-cost, two-conductor, phone plugs. All fit 1/4" jacks except, *fits S-11 Littel-Jax. Have solder terminals. Exterior parts bright nickel plated. Red or black handles are 1 1/4" long, 1/4" diameter. Types 380 and 385 have shielded handles 1" long. Av. wt., 4 oz.

Stock No.	Type	Figure	Color	EACH
41 H 564	350	L	Black	33¢
41 H 565	355	L	Red	33¢
41 H 566	380	P	Metal	42¢
41 H 448	385*	P	Metal	60¢

FLAT PHONE PLUGS

1/4" phone plugs featuring flat, space-saving handles. Ideal for applications where conventional plugs would protrude too far and interfere with operation of equipment, prevent installation in tight quarters, etc. Fig. G units have easily removable plastic handle; Fig. F units have shielded steel handle, bright nickel plated. All have screw terminals. except Types 228 and 238 which have solder lug terminals. Types 220 and 225 will accept standard phone tips. Type S230 is commercial version of Military Type PJ-068 plug; has 206" diameter sleeve and tip. Terminals and body are mechanically interlocked. Av. shpg. wt., 4 oz.

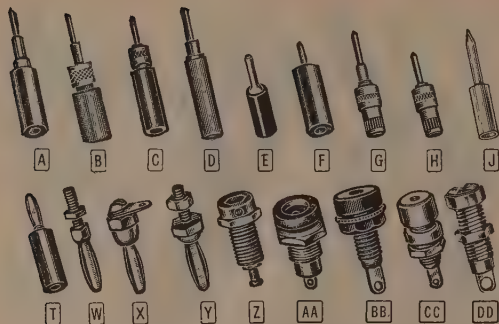
Stock No.	Type	Fig.	Conductors	Color	EACH
41 H 621	220	T	2	Black	.54
41 H 627	225	T	2	Red	.54
42 H 968	228	S	2	Metal	.57
41 H 568	230	T	3	Black	.78
41 H 569	235	T	3	Red	.78
42 H 969	238	S	3	Metal	.84
42 H 970	S230	T	3	Black	1.05

G-C ELECTROCRRAFT 1/4" PLUGS AND JACK

Standard Plugs and Jack. Standard 1/4" 2-conductor phone plugs and jack. Plugs have screw-type terminals and are available with either red or black break-resistant Tenite plastic handles; all metal parts, except screws, have nickel plating. Terminals, insulation, plus body and tip rod are mechanically interlocked to prevent turning. Overall length, 2 1/4". Open circuit. 2-conductor jack has 3/8" diameter threaded shank 3/4" long; requires only 1" behind panel, interlocked for dependable operation. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	EACH
41 H 017	33-600	W	Standard Phone Plug (black)	28¢
41 H 018	33-602	W	Standard Phone Plug (red)	28¢
41 H 019	33-690	X	Standard Phone Jack	18¢

G-C Electrocraft Plugs and Jacks



INSULATED TIP PLUGS

A Type 33-110 Heavy-Duty Phone Tip Plug. Molded plastic handle. One-piece, nickel-plated brass construction. 2 1/4" long. Shpg. wt., 3 oz.

41 H 536, Red	2 FOR
41 H 537, Black	22¢
41 H 538, Yellow	
41 H 539, Green	
41 H 540, Blue	

B Type 33-106 "Senior" Solderless Phone Tip Plug. Knurled nut tightens against wire making soldering unnecessary. Plug is nickel-plated brass; handle, plastic. 2 1/2" long. Wt., 3 oz.

41 H 250, Red	2 FOR
41 H 415, Yellow	24¢
41 H 416, Green	
41 H 417, Blue	

C Type 33-144 "Junior" Solderless Phone Tip Plug. Has same tightening assembly as Type 33-106, above. Plastic handle, nickel-plated brass. 1 1/2" long. 3 oz.

41 H 542, Red	2 FOR
41 H 543, Black	24¢
41 H 544, Yellow	
41 H 545, Green	
41 H 546, Blue	

D Subminiature Phone Tip. 1/4" O.D. bone fiber handle. Nickel-plated brass body. 1 1/4" overall length. 2 oz.

Stock No.	Type	Color
41 H 547	33-112	Red
41 H 548	33-114	Black

2 FOR.....26¢

E Type 33-116. For standard tip jacks. 1 1/4" long. 3 oz.

Stock No.	Type	Color
41 H 575	33-118	Red
41 H 576	33-120	Black
41 H 577	33-118	Yellow
41 H 578	33-118	Green
41 H 579	33-118	Blue

2 FOR.....14¢

NON-INSULATED TIP PLUGS

G Type 33-146 "Senior" Solderless Phone Tip Plug. Has knurled nut for fastening wire. 1 1/2" long. Shpg. wt., 2 oz.

41 H 240.....	2 FOR 16¢
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H Type 33-142 "Junior" Solderless Phone Tip Plug. As above, but 1 1/2" long. 2 oz.

41 H 230.....	2 FOR 16¢
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J Type 33-158 Heavy-Duty Cord Tip. Fits standard phone tip jacks. 1 1/2" long. 2 oz.

41 H 103, Pkg. of 10.....	24¢
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K Type 33-156 Standard Cord Tip. For test panels, head-phones, etc. Length, 1 1/2 oz.

41 H 104, Pkg. of 10.....	19¢
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MOLDED METER PLUGS

R Banana-Type Meter Plug. Four-leaved phosphor bronze spring; nickel-plated. Tip is 1/2" long. Color-coded for ready identification. Shpg. wt., 2 oz.

Stock No.	Type	Color
41 H 467	33-046	Red
41 H 468	33-048	Black

2 FOR.....42¢

S Meter Tip Plug. Molded in two halves for easy assembly with screw and nut. Nickel-plated tip is 1/2" long. Color-coded in red or black. Shpg. wt., 2 oz.

Stock No.	Type	Color
41 H 203	33-128	Red
41 H 204	33-130	Black

2 FOR.....34¢

INSULATED BANANA PLUGS

L Insulated, Spring Tip. Molded plastic handle. Wire can be soldered to brass stud which is supplied, or directly into plug. Length, 1 1/2". Five color codes. Shpg. wt., 2 oz.

Stock No.	Type	Color
41 H 593	33-000	Red
41 H 594	33-002	Black
41 H 595	33-000	Yellow
41 H 596	33-000	Green
41 H 597	33-000	Blue

2 FOR.....34¢

M Type 33-028 Insulated, Spring Tip. Plastic handle. Nickel-plated tip. Fits all standard banana jacks. Four leaved spring provides lasting contact. Length, 2". Identify easily with color codes. Shpg. wt., 2 oz.

41 H 407, Red.	2 FOR 54¢
41 H 408, Black.	

N Insulated, Spring Tip. Solderless; has set screw in plastic handle. Nickel-plated tip. Length, 1 1/2". Five colors for easy identification. Shpg. wt., 2 oz.

Stock No.	Type	Color
41 H 405	33-006	Red
41 H 410	33-008	Black
41 H 402	33-006	Yellow
41 H 403	33-006	Green
41 H 404	33-006	Blue

2 FOR.....30¢

P Insulated, Split Tip. Solderless; has set screw in handle. 1 1/2". Selection of five color codes. Shpg. wt., 2 oz.

Stock No.	Type	Color
41 H 425	33-018	Red
41 H 430	33-020	Black
41 H 412	33-018	Yellow
41 H 413	33-018	Green
41 H 414	33-018	Blue

2 FOR.....26¢

BANANA PLUGS

T Type 33-032 Insulated, Spring Tip. Nickel-plated brass tip. Wire can be soldered to brass stud supplied. 1 1/4". 2 oz.

41 H 462, Red	2 FOR
41 H 463, Black	30¢
41 H 464, Yellow	
41 H 465, Green	
41 H 466, Blue	

W Type 33-034 All-Metal, Spring Tip. Has solder lug. Four-leaved spring. Nickel-plated. 6-32x1/2" stud. 1 1/2". 2 oz.

41 H 400.....	2 FOR 26¢
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X Type 33-062 All-Metal, Spring Tip. As above, but internal threads permit use on all size panels. 1". Wt., 2 oz.

41 H 488.....	2 FOR 26¢
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Y Type 33-064 All-Metal, Spring Tip. Has solder lug. One-piece construction. 6-32x1/2" stud. Length, 1 1/2". Wt., 2 oz.

41 H 489.....	2 FOR 26¢
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TIP JACKS

Z Miniature Nylon Tip Jack. Has silver-plated, beryllium copper contact. Fits in 1/4" hole; mounts in panels up to 1/4" thick. Overall size, .312x3/4" dia. 2 oz.

Stock No.	Type	Color
41 H 495	33-242	Red
41 H 496	33-240	Black
41 H 497	33-240	Yellow
41 H 498	33-240	Green
41 H 499	33-240	Blue

2 FOR.....30¢

AA Nylon Tip Jack. Completely insulated; has phosphor bronze contact. 1 1/2x1/2". 2 oz.

Stock No.	Type	Color
41 H 012	33-216	Red
41 H 013	33-218	Black
41 H 014	33-216	Yellow
41 H 015	33-216	Green
41 H 016	33-216	Blue

2 FOR.....22¢

BB Insulated Tip Jack. Body is nickel-plated brass. Jack mounts in 1/4" hole in panels up to 3/8" thick. 1 1/2". 2 oz.

Stock No.	Type	Color
41 H 110	33-210	Red
41 H 115	33-212	Black
41 H 432	33-210	Yellow
41 H 433	33-210	Green
41 H 434	33-210	Blue

2 FOR.....18¢

CC Type 33-208 Insulated Tip Jack. Has sturdy molded nylon head and insulating washer. Nickel-plated brass body. Mounts in 3/8" hole. Shpg. wt., 2 oz.

41 H 024, Red	2 FOR
41 H 025, Black	28¢
41 H 026, Yellow	
41 H 027, Green	
41 H 028, Blue	

TIP JACK

DD Type 33-226 Non-Insulated Tip Jack. 1/4" max. panel thickness. Shpg. wt., 2 oz.

41 H 100.....	2 FOR
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BANANA JACKS

EE Insulated Banana Jack. With solder lug and removable insulated top. Requires 1/4" hole; for panels up to 3/8" thick. 1 1/2". Shpg. wt., 2 oz.

Stock No.	Type	Color
41 H 475	33-180	Red
41 H 480	33-182	Black
41 H 422	33-180	Yellow
41 H 423	33-180	Green
41 H 424	33-180	Blue

2 FOR.....28¢

FF Insulated Banana Jack. Has molded plastic head. Fits 3/4" mounting hole; for max. panel thickness, 2 oz.

Stock No.	Type	Color
41 H 033	33-186	Red
41 H 034	33-186	Black
41 H 035	33-186	Yellow
41 H 036	33-186	Green
41 H 037	33-186	Blue

2 FOR.....28¢

GG Type 33-220 Insulated Banana Jack. Molded nylon head and insulating washer. Fits 1/4" hole; max. 2 oz.

41 H 042, Red	2 FOR
41 H 043, Black	28¢
41 H 044, Yellow	
41 H 045, Green	
41 H 046, Blue	

HH Type 33-184 Non-Insulated Banana Jack. Brimmed lug. 1/4" hole; max. panel thickness, 2 oz.

41 H 047.....	2 FOR
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JJ Type 33-192 Non-Insulated Banana Jack. Brimmed lug. 1/4" hole; max. panel thickness, 2 oz.

41 H 470.....	2 FOR
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COMBINATION JACK

KK Insulated Combination Jack. Accommodates standard phone tip or banana plugs. Nickel-plated brass body. Mounts in 1/4" hole; panels to 3/8" thick. Length, 1 1/2". 2 oz.

Stock No.	Type	Color
41 H 130	33-194	Red
41 H 135	33-196	Black
41 H 137	33-194	Yellow
41 H 138	33-194	Green
41 H 143	33-194	Blue

2 FOR.....28¢

INSULATED SPADE LUG

LL Banana Plug To Spade Lug Adapter. Jack in it allows insertion of banana plug into spade lug. 1 1/2" long. 3/4" O.D. 2 oz.

Stock No.	Type	Color
41 H 048	33-300	Red
41 H 049	33-302	Black

2 FOR.....28¢

Plugs, Test Prods, Binding Posts, and Connectors

G-C ELECTROCRAFT

TEST PRODS and BINDING POSTS



TEST PRODS

Type 33-404 Solderless Test Prod. Threaded prod with 5" long plastic handle, 3/4" outer diameter. Nickel-plated phone tip. Wire fits outer handle and body of plug, wraps around screw portion—secured knurled collar. Shpg. wt., 4 oz.
H 110, Red. 42 H 111, Black. EACH. 17¢

Type 33-376 Solderless Fiber Test Prod. Has 4" bone fiber handle with extra large 1/4" inside diameter for heavy-duty wire. dy is nickel-plated brass. Wire fits through handle and body of plug, wraps around screw portion. Secured by knurled collar. Wt., 4 oz.
H 258, Red. 42 H 259, Black. EACH. 24¢

Type 33-384 Photo Needle Test Prod. Brass, nickel-plated body with steel, nickel-plated phono-type needle. Has removable chuck for placing broken needles. Needle pierces plating or corrosion to insure steric readings. Molded plastic handle, overall length 6" long, 3/8" outer diameter. Shpg. wt., 3 oz.
H 373, Red. 42 H 374, Type 33-386, Black. EACH. 21¢

Type 33-378 Heavy-Duty Test Prod. Threaded type with extra-sturdy brass, nickel-plated tip. Molded plastic handle, overall length 6" long, 3/4" outer dia. Fits standard phone tip jacks. 3 oz.
H 375, Red. 42 H 376, Black. EACH. 18¢

Type 33-138 Self-Gripping Tips. Clip to any terminal, lug, etc. Needle points for piercing insulation. Solderless connection inside plastic handle. Shpg. wt., 2 oz.
H 271, 33-138, Red. 42 H 272, 33-140, Black. EACH. 33¢

Type 33-138, Red. 42 H 272, 33-140, Black. EACH. 33¢



5-WAY and MULTI-PURPOSE BINDING POSTS

Type 33-286. Five-way metal binding post. Accepts banana plug, phone tip, spade lug, alligator clip or wire strand. Mounts in .171" in panels from 1/16" to 1/4" thick. Body: brass, nickel-plated. Head: brass, hex brass nickel-plated. Has wrap-around solder stud. With 2 mounting nuts. Shpg. wt., 3 oz.
H 327, EACH. 18¢

Type 33-288. Dual 5-way binding post assembly with black, insulated fluted heads. Accepts single or dual banana plugs. Mounts in two holes on 3/4" mounting centers in panels up to 1/4" thick. Has solder stud. 1/2" x 1/4" brass. Body: brass, nickel-plated. With 4 mtg. nuts. 4 oz.
H 328, EACH. 42¢

Type 33-290. Similar to Type 33-288, above, but has black hex-grip insulated heads. Shpg. wt., 4 oz.
H 329, EACH. 48¢

H 324. Type 33-292. As above, with 1—black, 1—red head. 48¢

Multi-Purpose Posts. Rated 2000v., 30 amps. Captive heads. Length unit is total closed. For panels 1/2" to 1/4" thick. Locking edge. Banana jack in head; also accepts phone tip, lug, etc. Grounding types. Has solder connection to stud. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	Mounting	Length	Color	EACH
H 368	33-272**	G	1/2"	1 1/8"	Red	30¢
H 367	33-274**	C	1/2"	1 1/8"	Black	30¢
H 330	33-256†	H	1/4"	1 1/8"	Red	14¢
H 335	33-258†	H	1/4"	1 1/8"	Black	14¢
H 388	33-264**	J	3/8"	1 3/4"	Red	23¢
H 389	33-266**	J	3/8"	1 3/4"	Black	23¢
H 394	33-268†	K	1 1/4"	1 3/4"	Red	23¢
H 395	33-269†	K	1 1/4"	1 3/4"	Black	23¢
H 397	33-296†	K	2 3/4"	1 3/4"	Red	23¢
H 398	33-296†	K	2 3/4"	1 3/4"	Black	23¢

Type 33-284. Brass, for heavy-duty use. 2 1/2" long. 3/8" mounting hole. Shpg. wt., 2 oz.
H 371. 2 FOR 24¢

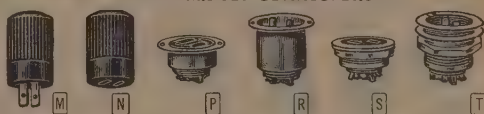
AMPHENOL MULTIWIRED CONNECTORS

Matching male and female connectors. Take cables 1/4" to 1/2" in type number, female: "M", male. "†" indicates small pins. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Conn-acts	EACH	Stock No.	Mfr's Type	Conn-acts	EACH
H 524	78-PF4	4	32¢	H 505	86-PM5	5	37¢
H 525	78-PF5	5	33¢	H 506	86-PM6	6	38¢
H 526	78-PF6	6	35¢	H 507	86-PM7S	7S	39¢
H 527	78-PF7S	7S	35¢	H 508	86-PM8	8	39¢
H 528	78-PF8	8	34¢	H 512	86-PM9	9	40¢
H 516	78-PF9	9	37¢	H 513	86-PM11	11	42¢
H 517	86-PF11	11	39¢	H 514	86-PM12	12	44¢
H 504	86-PM4	4	36¢	H 515	86-PM20	20	62¢

Amphenol Cable Clamp. Type 79-CC4. For use with above connectors. Relieves strain on soldered connections. Shpg. wt., 5 oz.
H 670. 2 FOR 20¢

AH&H MIDGET CONNECTORS



Midget 2-prong cord connectors and receptacles. Especially suited for applications where space is at a premium. Types illustrated in Figures M and N have housings of durable molded bakelite. Others have rust-resistant metal housings and insulation of bakelite. All units are rated at 10 amperes at 250 volts. A 1" diameter hole is required for all receptacles. Contact spacing is 1 1/2". Receptacle terminals are exposed. All units have threaded covers. Types 8032 and 8032S are furnished with plate for screws. Types 8032 and 8032S are furnished with plate and lock ring. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH
42 H 191	80324	M	Male cable connector	.67
42 H 192	80325	N	Female cable connector	.80
42 H 193	80326	P	Female flush receptacle	.80
42 H 194	80328	R	Female flush receptacle	.89
42 H 195	80327	S	Female flush receptacle	1.33
42 H 196	80329	T	Male flush receptacle	1.35

SUPERIOR 5-WAY BINDING POSTS

Five-way binding post offers complete insulation. Current capacity, 30 amperes; working voltage, 1000 volts. Takes spade lugs, banana plugs (have jack in top), clip leads, and up to No. 12 wire. All current-carrying metal parts are gold-plated for long life, resistance to corrosion. Insulated with nylon plastic; metal components are recessed. Mount in 1/2" holes in panels 1/2" to 1/4" thick. With hexagonal thumb nut. Shpg. wt., 4 oz.

Stock No.	Type	Color	EACH	Stock No.	Type	Color	EACH
41 H 172	DF30VC	Yellow	40¢	41 H 177	DF30BC	Black	40¢
41 H 173	DF30GC	Green		41 H 178	DF30RC	Red	
41 H 174	DF30WC	White		41 H 198	DF30BLC	Blue	40¢

GENERAL RADIO DOUBLE PLUG

Type 274-MB. Dual plug for standard banana jacks. On 3/4" centers. Also accepts phone tips or wire to No. 12. Jacks in top permit use of units in tandem. 15 ampere rating. Body size, 1 1/2" x 1 1/4". Shpg. wt., 3 oz.
41 H 242, EACH. 65¢

CINCH-JONES PLUG AND SOCKET

Series 101. Plug and socket for high-frequency RF use. For coax or shielded 1-conductor. Cadmium-plated brass; prong, contacts, silver-plated. Shpg. wt., 4 oz.

Stock No.	Type	Description	EA.	Stock No.	Type	Description	EA.
40 H 825	P-101	1/2" Plug	88¢	40 H 835	S-101	1/2" Socket	57¢

SERIES 202 PLUGS AND SOCKETS

Cadmium-plated brass plugs and sockets. Type P-202-CCT is polarized. Knurled nut. Type S-202-B socket, mtg. holes. No. 30 drill on 1" centers. All units have 3/4" x 27 thread. Type P-202-CCT and S-202-CCT-THR have cable clamp. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	EACH
40 H 980	P-202-CCT	W	Plug, 2 contact	.81
40 H 982	S-202-B	X	Socket, base mounting	.96
40 H 981	S-202-CCT-THR	Z	Socket, extension	1.09

AMPHENOL TYPE 71 MINIATURE PLUGS

Compact, efficient, high-dielectric plugs. Excellent for transmitters, receivers, intercoms, speaker connections, etc. Securely knurled, nickel-plated brass prongs deeply recessed to prevent shorts caused by pulled back insulation. Easily soldered. For cables with up to six conductors. Contacts are polarized to assure proper connections. Fit Amphenol 78-S series miniature sockets listed on Amphenol socket page. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Prongs	2 FOR	Stock No.	Mfr's Type	Prongs	2 FOR
40 H 177	71-3S	3	18¢	40 H 149	71-5S	5	24¢
40 H 169	71-4S	4	22¢	40 H 179	71-6S	6	30¢

AMPHENOL TYPE CP PLUGS

Bakelite plugs for chassis connectors with plug-in units. Use adapter plate below for replacement mounting. RM voltage ratings: 86-CP4, 2000 v.; CP-11 and CP-12, 500 v.; all others, 1250 v. With mounting ring for 1 1/2" holes except *21/2" keyed hole. †Have guide post and aligning key. CP1L has large pins; CP7S has small. Av. wt., 2 oz.

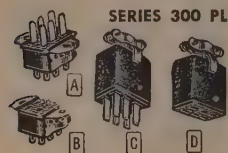
Stock No.	Mfr's Type	Pins	EACH	Stock No.	Mfr's Type	Pins	EACH
40 H 015	86-CP4	4	17¢	40 H 020	86-CP8†	Octal	20
40 H 016	86-CP5	5	18¢	40 H 021	86-CP9†	9	21¢
40 H 017	86-CP6	6	19¢	40 H 022	86-CP11†	11	24¢
40 H 018	86-CP7*	7	20¢	40 H 023	86-CP12†	12	25¢
40 H 019	86-CP7S	7	20¢				

Type 12-001-03 Adapter Plate. Nickel-plated steel. For use with all CP plugs above except 86-CP7L, 1 1/2" to 1 7/8" mtg. centers, 2 oz.
40 H 023. 2 FOR 10¢

Strips, Terminals, Connectors, Plugs and Sockets

CINCH-JONES PLUGS, SOCKETS, TERMINALS

HUBBELL "TWIST-LOCK" CONNECTORS



SERIES 300 PLUGS AND SOCKETS

Compact units rated 730 volts rms at 10 amps. Metal caps; bakelite body. Phosphor-bronze socket contacts engage both sides of plug contacts. Units are polarized; plugs with 24 or more contacts have positioning pin. Plug contacts are $\frac{1}{8}$ " wide by $\frac{3}{16}$ " thick. *Round shell; others rectangular. Av. shpg. wt., 3 oz.

TYPE AB FOR CHASSIS MOUNTING

A PLUGS

Contacts	Stock No.	Type	EACH	Stock No.	Type	EACH
2	40 H 870	P-302-AB*	.24	40 H 880	S-302-AB*	.27
3	40 H 871	P-303-AB	.31	40 H 881	S-303-AB	.32
4	40 H 872	P-304-AB	.34	40 H 882	S-304-AB	.36
4	40 H 873	P-306-AB	.42	40 H 883	S-306-AB	.45
8	40 H 874	P-308-AB	.50	40 H 884	S-308-AB	.56
10	40 H 875	P-310-AB	.56	40 H 885	S-310-AB	.66
12	40 H 876	P-312-AB	.62	40 H 886	S-312-AB	.77
14	40 H 816	P-315-AB	.83	40 H 887	S-315-AB	.96
18	40 H 817	P-318-AB	1.02	40 H 888	S-318-AB	1.16
21	40 H 818	P-321-AB	1.29	40 H 889	S-321-AB	1.43
24	40 H 819	P-324-AB	1.56	40 H 890	S-324-AB	1.70
27	40 H 820	P-327-AB	1.84	40 H 891	S-327-AB	1.97
30	40 H 821	P-330-AB	2.10	40 H 892	S-330-AB	2.25
33	40 H 822	P-333-AB	2.37	40 H 897	S-333-AB	2.52

B SOCKETS

TYPE CCT WITH CABLE CLAMP

C PLUGS

Contacts	Stock No.	Type	EACH	Stock No.	Type	EACH
2	40 H 802	P-302-CCT*	.57	40 H 852	S-302-CCT*	.57
3	40 H 803	P-303-CCT	.61	40 H 853	S-303-CCT	.62
4	40 H 804	P-304-CCT	.66	40 H 854	S-304-CCT	.67
4	40 H 805	P-306-CCT	.77	40 H 855	S-306-CCT	.77
8	40 H 808	P-308-CCT	.81	40 H 858	S-308-CCT	.90
10	40 H 810	P-310-CCT	.90	40 H 860	S-310-CCT	1.00
12	40 H 812	P-312-CCT	.99	40 H 862	S-312-CCT	1.08
15	40 H 805	P-315-CCT	1.29	40 H 865	S-315-CCT	1.43
18	40 H 807	P-318-CCT	1.56	40 H 861	S-318-CCT	1.70
21	40 H 809	P-321-CCT	1.84	40 H 859	S-321-CCT	1.97
24	40 H 811	P-324-CCT	2.17	40 H 857	S-324-CCT	2.33
27	40 H 813	P-327-CCT	2.46	40 H 859	S-327-CCT	2.59
30	40 H 814	P-330-CCT	2.87	40 H 861	S-330-CCT	3.00
33	40 H 815	P-333-CCT	3.06	40 H 863	S-333-CCT	3.21

D SOCKETS

BARRIER TERMINAL STRIPS

Make a long leakage path and prevent direct shorts caused by frayed wires at the terminals. Base is molded bakelite, with mounting holes at ends. Eyelets and binder screws of nickel-plated brass; terminals of hot tin-finish brass. When used with fanning strips, insure positive contact and firm connections. No. 140 terminal strips have 5-40x $\frac{3}{16}$ " binder head screws, $\frac{1}{4}$ " metal-to-metal spacing. No. 141 types have 6-32x $\frac{1}{4}$ " binder head screws, $\frac{1}{8}$ " metal-to-metal spacing. No. 142 types have 8-32x $\frac{1}{2}$ " binder head screws, $\frac{1}{8}$ " metal-to-metal spacing. Av. wt., 5 oz.

Series 140. Metal-to-metal spacing over bakelite $\frac{1}{4}$ ". Base $\frac{3}{8}$ " wide x $\frac{1}{2}$ " high. $\frac{3}{16}$ " centers.

Stock No.	Type	Term.	EACH	Stock No.	Type	Term.	EACH
41 H 580	1-140	1	11¢	41 H 581	7-140	7	51¢
41 H 800	2-140	2	18¢	41 H 804	8-140	8	58¢
41 H 801	3-140	3	25¢	41 H 582	9-140	9	69¢
41 H 803	4-140	4	32¢	41 H 805	10-140	10	71¢
41 H 807	5-140	5	38¢	41 H 583	11-140	11	77¢
41 H 802	6-140	6	44¢	41 H 806	12-140	12	84¢

Series 141. Metal-to-metal spacing over bakelite $\frac{1}{8}$ ". Base $1\frac{1}{8}$ " wide x $\frac{1}{2}$ " high. $\frac{3}{16}$ " centers.

Stock No.	Type	Term.	EACH	Stock No.	Type	Term.	EACH
41 H 835	2-141	2	23¢	41 H 838	6-141	6	.56
41 H 836	3-141	3	32¢	41 H 839	8-141	8	.72
41 H 837	4-141	4	34¢	41 H 840	10-141	10	1.04
41 H 842	5-141	5	49¢	41 H 841	12-141	12	1.72

Series 142. Metal-to-metal spacing over bakelite $\frac{1}{8}$ ". Base $1\frac{1}{8}$ " wide x $\frac{3}{8}$ " high. $\frac{3}{16}$ " centers.

Stock No.	Type	Term.	EACH	Stock No.	Type	Term.	EACH
41 H 670	2-142	2	27¢	41 H 674	6-142	6	.69
41 H 671	3-142	3	38¢	41 H 676	8-142	8	.90
41 H 672	4-142	4	49¢	41 H 678	10-142	10	1.12
41 H 673	5-142	5	59¢	41 H 680	12-142	12	1.32

3/4W

Y

Adapt barrier strips (listed above) to permit top-side or underside solder connections. Type $\frac{3}{4}$ W permits top-side soldering to barrier terminals; Type Y is for underside solder connection. Constructed of sturdy brass with durable hot-tin finish. Fasten securely under binder head screws. Av. shpg. wt., 3 oz.

TYPE 3/4 W				TYPE Y			
Stock No.	Mfr's Type	For Series	EACH	Stock No.	Mfr's Type	For Series	EACH
22 H 640	$\frac{3}{4}$ W-140	140	2¢	22 H 269	Y-140	140	2¢
22 H 641	$\frac{3}{4}$ W-141	141	3¢	22 H 270	Y-141	141	3¢
22 H 642	$\frac{3}{4}$ W-142	142	4¢	22 H 271	Y-142	142	3¢



A wide selection of heavy-duty electrical connectors in both midsize and standard sizes. Just plug connectors together and twist for a locked connection that cannot be accidentally pulled apart. Conform to National Electrical Code Standard. Av. shpg. wt., 3 oz.

MIDSIZE CONNECTORS

2-WIRE NON-POLARIZED TYPES

Type 7428 male cap and Type 7427 female connector are of durable brown bakelite with metal cable clamps for $\frac{3}{4}$ to $\frac{1}{2}$ " O.D. cords. Type 7466 male base and Type 7468 female base are of bakelite with metal housings. Rated 10 amps at 250 volts, or 15 amps at 125 volts.

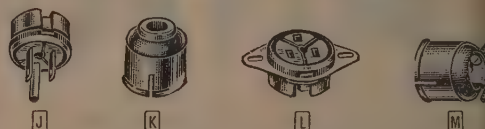
Stock No.	Mfr's Type	Fig.	Description	EACH
41 H 282	7428	E	Male Cap	.44
41 H 283	7427	F	Female Connector	.80
41 H 284	7466	G	Male Base	.95
41 H 287	7468	H	Female Base	1.14

3-WIRE POLARIZED TYPES

As above but for 3-conductor cables. Insulation is black bakelite. Clamps accept cords from .281 to .421" O.D. Polarization prevents wrong connection. Rated 10 amps at 250 v., or 15 amps at 115 v.

Stock No.	Mfr's Type	Fig.	Description	EACH
41 H 288	7485	E	Male Cap	1.03
41 H 289	7484	F	Female Connector	1.49
41 H 290	7486	G	Male Base	1.32
41 H 291	7487	H	Female Base	1.61

AMPHENOL PLUGS AND SOCKETS



STANDARD AND GROUNDING-TYPE

AC PLUGS AND SOCKETS

61 Series is 2-pole; 160 Series is 2-pole with grounding lug, recommended where grounding is required. Black phenolic. Rated 15 amps at 120 v. AC/DC; 10 amps at 220 v. All are U.L. Approved except Types 160-1 and 160-11, which must be grounded after mounting. Av. shpg. wt., 3 oz.

J Retainer Ring Mounting Types. For mounting in $1\frac{1}{8}$ " keyhole in chassis up to $\frac{1}{8}$ " thick. 61-M is standard type; 61-F is universal type. *Includes ground and third terminal for ground wire. All units listed are 2-pole types.

Stock No.	Type	Descr.	EACH	Stock No.	Type	Descr.	EACH
40 H 675	61-M	Male	29¢	42 H 522	160-10	Female	1.61
40 H 677	61-F	Female	27¢	42 H 523	160-11	Male	1.61

L Mounting Plate Types. All require $1\frac{1}{8}$ " mtg. holes and have $\frac{1}{4}$ " slotted holes on $1\frac{1}{2}$ " to $1\frac{3}{4}$ " centers except Type 61-M1P-61F which requires $1\frac{1}{8}$ " mtg. hole and has $\frac{3}{16}$ " holes on $1\frac{1}{2}$ " centers. Types 61-M and 61-F have removable mtg. plates. *With terminal for ground wire. All-pole.

40 H 680	61-M1	Male	33¢	42 H 525	160-3*	Male	1.1
40 H 682	61-F1	Female	32¢	40 H 085	61-MIP-		
42 H 524	160-2*	Female	72¢		61F	Female	2

Type 61-61 Recessed Shell. Shell for converting Type 61, 86 and 160 connectors to recessed mtg. types (listed below). Fits $1\frac{1}{8}$ " hole; two 22 screw holes on $1\frac{1}{4}$ " centers. Lower connector $1\frac{1}{8}$ " x $\frac{1}{2}$ " hole. For 7428 and 7466. Av. shpg. wt., 3 oz.

Steel Caps. For use with above plugs, sockets and connectors. Types 3-1 and 3-857 (Fig. K), have grommet for up to $\frac{1}{4}$ " cable. Types 3-24 and 3-856 (Fig. M), have adjustable clamps for cables up to $\frac{3}{4}$ " diameter.

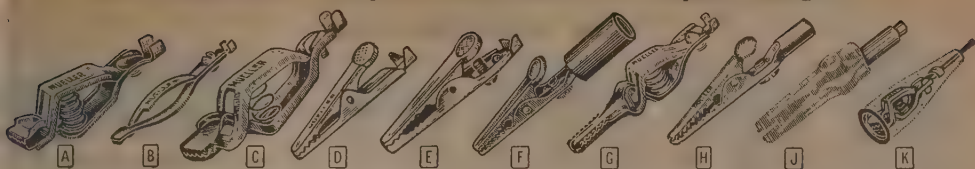
Stock No.	Type	Fig.	Use with Plugs and Sockets	Type	EACH
42 H 537	3-13	K	61, 86-CP, and S(Series 78).		13¢
42 H 545	3-857	K	Series 160		14¢
42 H 538	3-24	M	61, 86-CP, and S(Series 78).		19¢
42 H 546	3-856	M	Series 160		20¢

CINCH-JONES TERMINAL STRIPS

Series 2000. Compact terminal strips, of .019 brass, tin-plated, and spaced on $\frac{3}{16}$ " centers. Molded bakelite insulation. Mounting bracket is made of cadmium-plated steel. Mounting holes at each end of bracket. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Term.	Mtg. Ctr.	EACH	Stock No.	Mfr's Type	Term.	Mtg. Ctr.	EACH
41 H 687	2002	2	1"	8¢	41 H 691	2006	6	2 1/4"	12¢
41 H 688	2003	3	1 1/8"	9¢	41 H 693	2008	8	2 1/2"	15¢
41 H 689	2004	4	1 1/2"	10¢	41 H 695	2010	10	3 1/4"	17¢
41 H 690	2005	5	1 3/4"	11¢	41 H 697	2012	12	4 1/4"	19¢

Alligator Clips, Terminal Strips, Lugs



MUELLER CLIPS AND FLEXIBLE INSULATORS

MESH TEETH TEST CLIPS

For general purpose use. *Solid Copper. †Cadmium-plated steel. 3 oz.

Stock No.	Type	Amps	Size	E.A.
45 H 000	44S	5	1 1/2"	7c
45 H 005	44SC	10	1 1/2"	14c

LEAD-PLATED BATTERY CLIPS

For moderately heavy current work, including battery charging, electroplating, and light welding. Av. shpg. wt., 4 oz.

Stock No.	Type	Amps	Description	Size	E.A.
45 H 021	24A	25	Positive	2 1/2"	23c
45 H 022	24A	25	Plain	2 1/2"	23c

SOLID COPPER CLIPS

Heavy-duty, high-conductivity, solid copper clips. Shpg. wt., 24C, 2 oz.; 21C, 3 oz.

Stock No.	Type	Amps	Description	Size	E.A.
45 H 028	24C	50	Positive	2 1/2"	39c
45 H 029	24C	50	Plain	2 1/2"	38c
45 H 031	21C	100	Positive	4 1/2"	97c
45 H 032	21C	100	Plain	4 1/2"	97c

NON-FERROUS RF TEST CLIP

Type 88. Phosphor bronze clip, brass screw. Ideal for coils. 1 1/8". Shpg. wt., per 100, 3/4 lb. EACH 22C

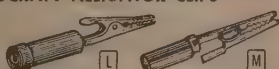
3-SIDED MESH TEETH CLIPS

†Cadmium-plated steel; *solid copper; †solid bronze. Insulation-piercing needle. Jaws open 3/4". Shpg. wt., per 100, 3 1/2 lbs.

Stock No.	Type	Amps	Size	E.A.
45 H 010	44SB	10	2"	11c
45 H 078	44SC	10	2"	15c
45 H 087	†130C	10	2 1/2"	28c
45 H 015	42T	20	2 1/2"	13c
45 H 097	42TC	40	2 1/2"	23c

G-C ELECTROCRRAFT ALLIGATOR CLIPS

Have plastic insulated handles. Types 33-34, 33-35, 33-36, 33-37, 33-38 are Fig. L; others are Fig. M. Types 33-38 and 33-36 are all-insulated to prevent shock or short-circuiting. All accept of phone tip or banana plug except type 33-32, banana plug; Type 33-32, banana plug. Av. wt., 2 oz.



Stock No.	Type	Color	Description	E.A.
41 H 300	33-34	Red	With tip jack adapter.	25c
41 H 305	33-36	Black	With tip jack adapter.	25c
41 H 168	33-33	Red	Comb. tip & banana jack.	27c
41 H 169	33-32	Black	Comb. tip & banana jack.	27c
41 H 373	33-32	Red	With tip jack adapter.	30c
41 H 374	33-32	Black	With tip jack adapter.	30c
41 H 392	33-32	Red	With banana jack adapter.	30c
41 H 383	33-32	Black	With banana jack adapter.	30c

"MINI-GATOR" CLIPS

D Miniaturized—1/4" jaw opening, 1/4" O.D. tip. †Cadmium-plated steel; *solid copper. Shpg. wt., per 100, 4 oz.

Stock No.	Type	Amps	Size	E.A.
45 H 142	430	5	1 1/4"	6c
45 H 143	430C	10	1 1/4"	7c

70 SERIES ALLIGATOR CLIPS

E †Cadmium-plated steel; *solid copper; †solder connection; †screw connected. Wt., per 100, 1 lb.

Stock No.	Type	Amps	Size	E.A.
45 H 170	704†	5	1 1/4"	7c
45 H 171	705†	5	1 1/4"	8c
45 H 172	705CS†	10	1 1/4"	11c

INSULATED BARREL ALLIGATOR CLIPS

F Made of cadmium-plated steel, except *solid copper. Jaws open 3/4". Wt., per 100, 1 1/2 lbs.

Stock No.	Type	Amps	Description	Size	E.A.
45 H 070	60HS	2 1/2"	Red handle	1 1/2"	11c
45 H 075	60HS	2 1/2"	Black handle	1 1/2"	11c
45 H 090	†60CHS	2 1/2"	Red handle	1 1/2"	15c
45 H 095	†60CHS	2 1/2"	Black handle	1 1/2"	15c

CROCODILE CLIPS

G *Solid copper; †cadmium-plated steel; †Phone tip on one jaw. Wt., per 100, 1 1/4 lbs.

Stock No.	Type	Amps	Description	Size	E.A.
45 H 060	†85	2 1/2"	Screw Connection	9c	
45 H 062	†85CS	2 1/2"	Screw Connection	18c	
45 H 098	†85T	2 1/2"	Tip-Clip	22c	

ALLIGATOR CLIPS

H Steel, except *Solid copper; †Solder type; "S"—screw type. Slim jaws for close work. Jaws open 3/4". Wt., per 100, 1 lb.

Stock No.	Type	Size	Description	E.A.
45 H 200	†60	2"	Fit banana plugs	7c
45 H 065	60S	2"	Fit banana plugs	8c
45 H 080	†60CS	2"	Fit banana plugs	12c

INSULATED ALLIGATOR CLIPS

J †No. 63 clip, cadmium-plated steel; *No. 63C clip, solid copper type for low resistance. Completely insulated with 2-piece vinyl insulator, available in either red or black. Slotted nose permits opening of clip without exposing metal. Size, 2 1/2". Shpg. wt., 3 oz.

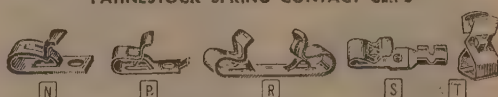
Stock No.	Type	Amps	Description	E.A.
45 H 145	63C	5	Red insulator	19c
45 H 146	63C	5	Black insulator	19c
45 H 147	†63C	10	Red insulator	22c
45 H 148	†63C	10	Black insulator	22c

SLIP-ON INSULATORS FOR CLIPS

K Tough, flexible vinyl plastic. High dielectric strength holds clip firmly; resistant to oils and grease. Covers entire clip except end of nose. Long tail prevents breakage of wire. Available in red and black to indicate polarity. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Use With Series	Color	E.A.
45 H 038	23	21	Red	40c
45 H 039	23	21	Black	40c
45 H 040	26	24	Red	21c
45 H 042	26	24	Black	21c
45 H 043	29	27	Red	13c
45 H 044	29	27	Black	13c
45 H 046	32	30	Red	5c
45 H 047	32	30	Black	5c
45 H 053	47	45	Red	6c
45 H 054	47	45	Black	6c
45 H 056	49	48, 50	Red	9c
45 H 057	49	48, 50	Black	9c
45 H 058	62	60, 70	Red	12c
45 H 059	62	60, 70	Black	12c
45 H 064	87	85	Red	6c
45 H 066	87	85	Black	6c
45 H 068	93	88	Red	12c
45 H 069	93	88	Black	12c

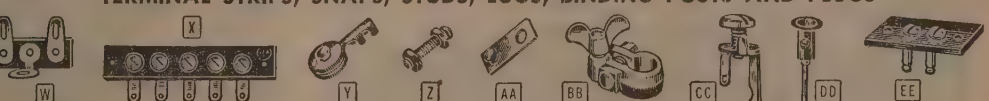
FAHNESTOCK SPRING CONTACT CLIPS



Made of brass, except *bronze. Av. wt., per pkg., 3 oz. 10 per package.

Stock No.	Mfr's Type	Fig.	LXW	Max Wire	Mtg. Hole	PKG. of 10	Stock No.	Mfr's Type	Fig.	LXW	Max Wire	Mtg. Hole	PKG. of 10
41 H 700	2	N	1x1/2"	10	8	17c	41 H 704	9	R	2 1/2"x1/2"	10	8	69
41 H 702	3	N	1 1/4"x3/8"	10	8	17c	41 H 710	9C	R	1 3/4"x3/8"	10	8	150
41 H 706	10	N	1 1/2"x3/16"	14	6	10c	41 H 715	18	R	1 3/4"x3/16"	14	6	50
41 H 703	5	P	1 1/4"x3/8"	10	8	12c	41 H 708	36	S	1 1/2"x3/8"	10	lug	55
41 H 707	15*	P	1 1/2"x3/32"	16	4	10c	41 H 709	45	T	1 1/2"x3/8"	12	6	17

TERMINAL STRIPS, SNAPS, STUDS, LUGS, BINDING POSTS AND PLUGS



TERMINAL STRIPS

H. H. Smith Lug Types, solder coated steel lugs spaced on 1/2" ctrs.; 140 dia. mtg. holes. Bakelite strips, 1/2"x 1/4", 2 oz.

Stock No.	Type	Term.	2For
4 H 061	861	1	4c
4 H 069	863	2	4c
4 H 079	857	3	8c
4 H 089	849	4	8c
4 H 085	866	4	8c
4 H 092	858	6	10c

Stock No.	Type	Term.	2For
22 H 649	17.2	2	14c
22 H 650	17.3	3	20c
22 H 651	17.4	4	26c
22 H 652	17.5	5	30c
22 H 653	17.6	6	36c

TERMINAL LUGS AND PIN PLUGS

Av. shpg. wt., per pkg., 4 oz. 10 per package.

Stock No.	Fig.	Description	PER PKG.
41 H 767	CC	Terminal lugs	51c
41 H 777	DD	Black insulated pin-plug. Nickel plated brass, 1/4" dia.	54c

BATTERY BINDING POST

Heavy-duty post with separate threaded terminal. Shpg. wt., 5 oz. 41 H 785. EACH 56c

NU-WAY SNAPS, STUDS, AND LUGS

Contacts for temporary or permanent connections. Snap, 3/8" dia. x 3/8" L; Stud, 6-32x1/2"; Lug 1/2"x 3/8"x 1/4". Nickel plated brass. Solder lug has hole for 6-32 screw. Av. shpg. wt., per pkg., 12 oz. 100 per package.

Stock No.	Fig.	Description	PER PKG.
44 H 450	Y	Snaps for lugs and studs.	7.90
44 H 452	Z	Studs for panel or chassis mtg.	5.00
44 H 451	AA	Lugs for flush mounting.	5.00

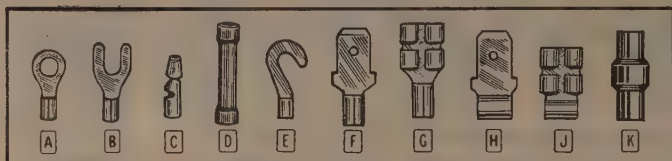
HEAVY-DUTY STRIPS

EE Constructed of 3/4" thick, black bakelite. Cadmium plated screw terminals and tinned lugs. For antenna-ground connection and speaker connections on receivers; power supply terminals; etc. Drilled for 2-hole chassis mtg. Av. wt., 4 oz.

Stock No.	Terminals	EACH	Stock No.	Terminals	EACH
41 H 875	2	19c	41 H 895	6	42c
41 H 880	3	25c	41 H 897	7	48c
41 H 885	4	31c	41 H 898	8	52c
41 H 890	5	35c			

Solderless Terminals, Tools and Shields

VACO TERMINALS, TOOLS, AND KITS



NON-INSULATED TERMINALS

Form perfect electrical connections. Ideal for general-purpose use, appliance repair, radio and TV servicing, etc. Constructed of copper alloy for maximum conductivity and minimum voltage drop. Each terminal chrome-plated for complete protection. *Indicates included in 2195 kit, at right. †1/4" male tab. ‡Female tab

socket. 1/4" angle male tab. #Angle female tab socket. **Connector, takes 1/4" male tab either end. All packed 100 to a package except economy pack which features quantities as indicated in table. Use Model 1900 crimping tool at right for proper installation. Av. shpg. wt.: pkg. of 100, 8 oz.; economy pack, 3 oz.

Wire Size	Stud Size	Lgth.	Fig.	Stock No.	Mfr's Type	Per Pkg. of 100	Stock No.	Pkg. Qty.	Per Pkg.
22-16	4-6	1 1/2"	A	42 H 800	11205*	2.22	44 H 476	41	1.00
22-16	4-6	3/4"	A	42 H 801	11206*	2.22	44 H 481	41	1.00
22-16	8-10	1 1/2"	A	42 H 802	11210*	2.22	44 H 482	41	1.00
16-14	4-6	1 1/2"	A	42 H 803	11305*	2.22	44 H 477	41	1.00
16-14	4-6	3/4"	A	42 H 804	11306*	2.22	44 H 485	41	1.00
16-14	8-10	2 3/4"	A	42 H 805	11310*	2.22	44 H 486	41	1.00
12-10	8-10	3/4"	A	42 H 807	11410	2.77	44 H 489	32	1.00
12-10	12-1/4	3/4"	A	42 H 808	11414	3.6	44 H 490	24	1.00
22-16	4-6	3/4"	B	42 H 809	14206*	1.98	44 H 488	45	1.00
16-14	4-6	4 3/4"	B	42 H 810	13306*	2.22	44 H 492	41	1.00
16-14	8-10	4 3/4"	B	42 H 811	13310*	2.22	44 H 493	41	1.00
22-16	4-6	1 1/2"	B	42 H 812	13206	1.98	44 H 265	45	1.00
16-14	.....	3/4"	C	42 H 813	19301	1.72	44 H 290	52	1.00
22-16	.....	1 1/2"	D	42 H 816	17202	1.72	44 H 287	52	1.00
16-14	.....	3/4"	D	42 H 817	17302	1.72	44 H 288	52	1.00
12-10	.....	3/4"	D	42 H 818	17402	2.22	44 H 289	41	1.00
22-16	4-8	5 1/2"	E	42 H 819	15208	1.98	44 H 499	45	1.00
18-16	.....	2 3/4"	E	42 H 820	18301†	2.22	44 H 295	41	1.00
22-16	.....	3/4"	F	42 H 821	18302†	2.22	44 H 297	41	1.00
22-18	.....	1 1/2"	G	44 H 213	18204‡	2.22	.....	.....	.....
18-24	.....	3/4"	H	42 H 822	18303†	2.22	44 H 301	41	1.00
18-14	.....	1 1/2"	I	42 H 823	18304†	2.22	44 H 302	41	1.00
.....	.....	3/4"	J	44 H 212	19302**	4.05	.....	.....	.....
.....	.....	1 1/2"	K	.....	.....	.....	.....	.....	.....

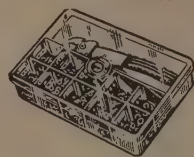


CRIMPING TOOLS

Model 1906. Designed specifically for crimping insulated solderless terminals. Strips insulation from #22 to #10 AWC wire. Tool has 2 steel jaws. Supplied with red plastic handle. Shpg. wt., 1 lb. 44 H 228 4.2

Model 1900. Same as above, except designed for crimping non-insulated solderless terminals. Tool is supplied with 3 crimping dies. Shpg. wt., 1 lb. 44 H 233 3.9

SERVICE KIT



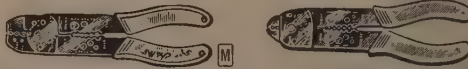
Model 2195. Handy kit contains \$5.00 worth of solderless terminals in assorted sizes, in addition to Type 15 crimping-cutting tool described above. Tool cuts and crimps terminal on stripped portion of wire—makes a fast, trouble-free solderless connection. Contains a wide selection of popular single-grip terminals which let you make almost any type of lug connection used in electrical, radio, or TV work. All terminals listed in table at left with * are included in kit. Supplied in a clear plastic case with individual compartments for terminals and tool. 8 3/4" x 1 3/4" x 4 1/2". Shpg. wt., 2 lbs. 44 H 427 8.9

A-MP TERMINAL KIT

Type 29033. Assortment of most popular solderless terminals for general wiring applications, plus the heavy-duty "Super Champ" crimping and wiring tool described at right. Terminal and tool in handy transparent case with compartments. Ideal for radio-TV and electrical servicemen, etc. Eliminates soldering. For all wire sizes from 10 to 22, and most-of-often used stud sizes. Case, 9 1/2" x 6 1/2" x 2 1/2". Shpg. wt., 2 lbs. 45 H 322 19.95



A-MP CRIMPING TOOLS



M "Super Champ" Crimping Tool Type 47100-1. Crimps insulation on solderless terminals; shears machine screw, measures stud sizes, and strips wire. Constructed of tool steel; has insulated plastic handle. Shpg. wt., 1 lb. 45 H 321 4.9

N Type 49835-1. As above but for non-insulated terminals. 44 H 453 4.



TUBE SHIELDS AND CAPS

A complete selection of tube caps and shields for receiving and transmitting tubes. Shields are used with low level, high gain audio amplifier stages to eliminate hum pickup. Shields also prevent oscillation in high gain RF amplifiers and radiation in oscillator and converter tubes. Shields and ground caps (Figs. R and P), for both 7-pin miniature and Bantam type tubes are listed. A variety of tube caps is avail-

able providing positive contact. Choose from plastic, malleable and ceramic types. Includes heat-dissipating types—fins have large surface area for rapid radiation of heat; have set screw (Fig. T). Millen Type 36011 (Fig. X), gives tighter grip for industrial and mobile applications; self-locking, has snap-button release. Figures S, W, and Y are cap type. Shpg. wt. per pkg., 3 oz.

Stock No.	Fig.	Description and Application	Per Pkg.	PER PKG.
42 H 510	P	Goat G1332-3 tube shield for GT tubes, 2 5/8" high, 3/4" hole.	4	.25
42 H 512	R	Goat G1700 tube shield for min. T5 1/2" with G1710-B base. 5/8" x 1 1/2".	3	.21
42 H 514	S	National Type 24. For standard tubes, 3/4" dia. grid caps.	5	.20
42 H 515	S	National Type 8. For octal tubes, 1/4" diameter grid caps.	5	.20
42 H 096	T	Eimac HR-6 heat dissipating cap for 4-250A, 3047H, etc. 2 3/4" hole.	1	1.20
43 H 086	T	Bud TC-487 heat dissipating cap for 10H7, HK24, 304B, 825B, 832A, 834, 1 1/4" hole.	1	.67
43 H 088	T	Bud TC-1920 heat dissipating cap for 1000, 802, 4-125A, 2-150D, 250TH, 4-250A, 6146, 1625, 4032, 807W, 1B3GT, etc. 3/4" hole.	1	.67
-43 H 089	T	Bud TC-1921 heat dissipating cap for 866, T125, HF100, 450TH, 750TH, 809, 811, 812, 813, 828, 866, etc. 3/4" hole.	1	.78
43 H 243	X	Millen 36011 industrial snap-action plate cap, 3/4".	1	.75
42 H 175	W	National SPP-9 ceramic-insulated grid and plate cap, 3/4".	1	.24
42 H 518	S	National Type 12 grid and plate cap, 3/4".	3	.21
42 H 244	Y	Millen Type 36002 statelite tube cap, 3/4".	1	.24
43 H 245	Y	Millen Type 36004 statelite tube cap, 1/4".	1	.24
43 H 246	Y	Millen 36001 statelite plate cap for 866, etc. 3/4".	1	.24

T & B CONNECTORS FOR IRC POLYSTRIP FLAT CABLE



Provide an efficient, versatile and reliable method for interconnecting flat conductive cable, or adapting flat cable to conventional wiring equipment. First number in Mfr's Type indicates number of conductors connector accommodates. Type 3PWA and 5PWA adaptors are for use in connecting round wire to Polystrip flat cable. Type PWR has neoprene spring, .1" pitch; PWM, beryllium copper spring, .04" pitch. Other conductor combinations can be obtained by varying the pitch providing cable width remains constant. Connectors accommodate cable widths shown in table below. Av. shpg. wt., per 100, 2 lbs.

Stock No.	Mfr's Type	For Polystrip Cable Width	EACH 1-99 100-1000
40 H 896	3PWR	.330"	40¢ 31¢
40 H 897	3PWR	.630"	40¢ 37¢
40 H 887	3PWM	.330"	60¢ 47¢
40 H 888	3PWM	.630"	70¢ 55¢
40 H 898	3PWA	.....	55¢ 42¢
40 H 899	5PWA	.....	52¢ 25¢

You can always depend on Allied for complete stocks, lowest prices, and fast, friendly service.

Amphenol and Pomona Sockets and Adapters

AMPHENOL ACS SOCKET SHELL

23-15. Lightweight aluminum shell for Type RS and S sockets of Type 49RSS7L. Its extension of sockets with long-life metal contacts wear your tube tester sockets out of repeated tube insertions. Plugs directly into original shell. Av. shpg. wt., 5 oz.



POMONA SOCKET SAVERS

Non-mounting socket savers are rugged and durable phenolic material with long-life metal contacts wear your tube tester sockets out of repeated tube insertions. Plugs directly into original shell. Av. shpg. wt., 5 oz.



Stk No.	Type	Use With	EACH
1 668	SS-7	7-pin miniature	1.75
1 669	SS-8	8-pin octal	1.75
1 678	SS-9	9-pin miniature	2.25
1 240	SS-12	12-pin compactron	2.25

POMONA TEST SOCKET TUBE ADAPTERS

measuring voltage, audio and without tracing bottom of chassis. 7, TVS-8, TVS-9, 12 feature extended tabs, low-loss filled molded phenolic construction per MIL-14, voltage down to 1800 V. AC or DC. Av. shpg. wt., 5 oz.



Stk No.	Type	Pins	Description	EACH
1 035	TVS-7	7	Miniature	1.65
1 036	TVS-8	8	Octal	1.75
1 037	TVS-9	9	Miniature	2.25
1 038	TVS-12	12	Compactron	2.25
1 039	1447	7	Miniature	1.85
1 039	1449	9	Miniature	1.95

POMONA 110° TUBE CONNECTION ADAPTERS

110-S. Sylvania Type. For local test equipment. No rework in plug in for 110° socket. Has pin circle dia. 7 pins, .093" dia. 4 oz. 1.55
14683.
110-R. RCA Type. As above, but .08" circle dia. 8 pins, .04" dia. Wt., 5 oz. 1.55
14684.



JAMES MILLEN TUBE SOCKETS

Recommended for UHF use. Her steatite body gives better leakage path between contacts. Mounting centers, .319". Shpg. wt., 4 oz.



Stk No.	Type	Pins	Prongs	EACH
1 200	33004		4	
1 201	33005		5	
1 202	33006		6	.60
1 203	33008		8	

MINI-SPRING™ TUBE HOLD-DOWNS

Hold tubes securely in place. Prevent breakage and assure better stability. Valuable where sockets are mounted upside down (a horizontal position); also ideal for equipment subject to vibration and shock. For 7 or 9 pin miniature tubes. Mount nut and bolt, or may be inserted with rivet. Average shpg. wt. 3 oz. 10 per package.



Stk No.	Height	For Tubes	Per Pkg.
1 320	2 3/8"	6AQ5, 6X4, 35B5, 35W4, 50B5, etc.	
1 321	1 7/8"	1R5, 6AG5, 6AT6, 6HE6, 6C4, etc.	.26
1 322	1 1/2"	6A6S, 6AL5, 6AL5, 6AS6, 6N4, etc.	
1 323	1 1/4"	12AT7, 12AU7, etc.	

AMPHENOL STANDARD TUBE SOCKETS



A Type MIP. Bakelite body with molded-in steel plate. Requires 1 1/4" hole; mounting centers, 1 1/2". All others have 1 1/4" mounting centers. †Requires 1 1/4" hole; others 1 1/4" hole. ‡Mica-filled bakelite. Av. shpg. wt., 4 oz.

Stock No.	Type	Prongs	EACH
40 H 024	77MIP4	4	.14
40 H 025	77MIP5	5	.15
40 H 026	77MIP6	6	.18
40 H 027	77MIP7S	7 Small	.19
40 H 029	77MIP7L	7 Large	.19
40 H 028	77MIP8	Octal	.16
40 H 126	88-8*	Octal	.17
40 H 030	88-8X*	Loktal	.22
40 H 034	77MIP8T	Octal	.19
40 H 032	77MIP9	9	.18
40 H 033	77MIP11	11	.21
40 H 069	77MIP12	12	.21
40 H 070	77MIP20	20	.54

B Type RS. Molded bakelite body with removable mounting plate. For mounting in size 1 1/4" hole. Slotted mounting holes to fit centers from 1 1/4" to 1 1/4". Av. shpg. wt., 4 oz.

Stock No.	Type	Prongs	EACH
40 H 004	78RS4	4	.18
40 H 005	78RS5	5	.20
40 H 006	78RS6	6	.22
40 H 007	78RS7S	7 Small	.22
40 H 008	78RS8	Octal	.20
40 H 010	78RS8L	Loktal	.27
40 H 012	78RS9	9	.23
40 H 071	78RS11	11	.25

C Type RSS. Ultra-low-loss steatite replacement sockets. Ruggedly constructed. Adaptable to a wide variety of uses. Excellent for use in high-frequency transmitting equipment, etc. All are universal type; have removable mounting plate with slotted holes 1 1/4" to 1 1/4". Mounting hole, 1 1/4" except 40 H 079, which requires 1 1/4". Av. shpg. wt., 5 oz.

Stock No.	Type	Prongs	EACH
40 H 074	49RSS4	4	.62
40 H 075	49RSS5	5	.64
40 H 076	49RSS6	6	.62
40 H 077	49RSS7S	7 Small	.70
40 H 078	49RSS7L	7 Large	.68
40 H 079	49RSS8	Octal	.62

D Type S. High-dielectric molded bakelite body. Units are the same as Type RS, but without mounting plate. Mount quickly and easily without screws or rivets on panel or chassis up to .050" thick with retainer ring supplied. Ruggedly built for trouble-free service. Socket may be positioned to line up contacts for convenient wiring. Require 1 1/4" mounting hole. Av. shpg. wt., 4 oz.

Stock No.	Type	Prongs	EACH
40 H 054	78S4	4	.13
40 H 055	78S5	5	.14
40 H 056	78S6	6	.16
40 H 057	78S7S	7 Small	.17
40 H 058	78S8	Octal	.15
40 H 062	78S9	9	.18
40 H 060	78S8L	Loktal	.22
40 H 072	78S11	11	.20

AMPHENOL MINIATURE SOCKETS AND SHIELDS

BAKELITE SOCKETS

Miniature sockets and shields. 147 series mount in 3/8" hole; 3/8" mtg. ctrs. with 1/4" holes. 59 series mount in 3/8" hole and have 1/4" mtg. ctrs. with .095" holes (except 40 H 103, .125"). †Black bakelite. ‡Mica-filled. Shpg. wt., 5 oz.



E WITHOUT TUBE SHIELD BASE

Stock No.	Type	Prongs	EACH
40 H 191	1147-500	7	.21
40 H 199	1147-505	7	.22
40 H 193	159-409	9	.26
40 H 167	159-410	9	.27

F WITH TUBE SHIELD BASE

Stock No.	Type	Prongs	EACH
40 H 194	1147-905	7	.28
40 H 175	1147-913	7	.28
40 H 103	159-403	9	.39
40 H 176	159-407	9	.32
40 H 196	159-406	9	.32

G TUBE SHIELDS

FOR 7-CONTACT SOCKETS

Stock No.	Type	Height	EACH
40 H 197	5-401	1 1/4"	.16
40 H 198	5-402	1 1/4"	.16

FOR 9-CONTACT SOCKETS

Stock No.	Type	Height	EACH
40 H 188	5-405	1 1/4"	.14
40 H 189	5-408	1 1/4"	.19
40 H 190	5-409	2 3/8"	.23

H RETAINER RING SOCKETS

Mount in 3/8" round or "D" shaped hole with retainer rings provided. May be used with Amphenol Series 91-MPM plugs. 5 oz.

BLACK BAKELITE

Stock No.	Type	Prongs	EACH
40 H 131	78-S3S	3	.09
40 H 115	78-S4S	4	.12
40 H 122	78-S5S	5	.16
40 H 130	78-S6S	6	.17
40 H 120	78-F7	7	.22

MICA-FILLED

40 H 124	78-TPT	7	.22
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TYPE "S" MINIATURE SOCKETS

Full-size bakelite body with miniature 7 or 9-pin contacts. Ideal for re-cutting. Mounts in std. 1 1/4" chassis hole with retainer ring (supplied). Wt., 5 oz.



40 H 113.	78-ATP, 7 Pin.....	EACH	.34
40 H 114.	78-A9P, 9 Pin.....	EACH	.34

AMPHENOL SPECIAL OCTAL AND MAGNOL SOCKETS



K Type 168-015 Saddle Octal. For below-chassis mounting. Steel plate is molded directly into bakelite body. For 1" hole; 3/4" mounting holes on 1 1/4" centers. Wt., 5 oz. EACH .15

J Type 77-MIP8FK Floating Octal. Live-rubber grommets in enlarged mounting holes of sturdy steel plate. Mounts in 1 1/4" hole with two 1/4" holes on 1 1/4" centers. Supplied with grommets, mtg. screws, nuts, washers. Shpg. wt. 5 oz. 40 H 043..... EACH .32

L Type 49-S511L Magnet. Has 1 1/4" pin circle to accept 11-prong cathode-ray tubes. Low-loss steatite. Steel retaining ring for quick assembly. 1 1/4" mounting hole. 7 oz. 40 H 090..... EACH .86

Allied stocks the complete line of Amphenol sockets. Even if the socket you require is not listed, Allied can fill your order quickly. Write, wire, or phone for further information.

Sockets, Couplings, Dial Accessories, Antennas

ELCO TRANSISTOR AND TUBE SOCKETS

TRANSISTOR SOCKETS

-miniature mica rets eliminate loss damage from dis-
lodging of trans-
istors. For 3-pin
istors with in-
pins or 3 and 4
transistors with
s on .200" diam. circle of any configuration.
form to MIL-P-14. *Ring only for 3304,
7, 3313, 7PC, mounting for printed circuits;
t, mounting ring. Av. wt., 2 oz.

Stock No.	Type	Fig.	†Mtg.	EACH
H 092	3301	A	Saddle	18¢
H 238	3303	A	PC	14¢
H 244	3305	A	PC	14¢
H 244	3308	B	PC	17¢
H 093	3304	A	MR	14¢
H 243	3307	C	MR	17¢
H 099	3313	C	MR	20¢
H 095	757	*	MR	2¢

PRINTED CIRCUIT SOCKETS

Excellent selection of sub-mini-
ature, mica filled phenolic sockets.
Use on printed circuit boards.
For transistors and sub-miniature
tubes. All contacts gold flash-
ed. Av. shpg. wt., 2 oz.

Stock No.	Type	Prongs	EACH
H 062	786BC	3	12¢
H 063	803BC	4	12¢

RETAINER MOUNT SOCKETS

Mica filled phenolic sockets.
Use on printed circuit boards.
For transistors and sub-miniature
tubes. Contacts are gold flash-
ed. Require retainers listed.
Av. shpg. wt., 3 oz.

Stock No.	Type	Prongs	EACH
H 074	799BC	3	10¢
H 080	803BC	4	11¢

Retainer Ring For Above Sockets. Designed
to fit Elco Type 799BC and 803BC transistor
and tube sockets above. 2 oz.
Av. shpg. wt., 2 oz.

WALSOCO DIAL CORD SPOOLS

Walsoco dial cord spools are made
of nylon sleeves over
ergals or linen cores.
Pre-cut to prevent stretch-
ing and slipping; maintain
proper tension. Av. wt., 4 oz.

Stock No.	Type	Dia.	Stgrth.	Lgth.	EACH
H 194	652-Med.	.040"	35 lbs.	25 ft.	73¢
H 198	656-Thin	.025"	15 lbs.	25 ft.	
H 199	654-Std.	.032"	20 lbs.	25 ft.	
H 197	652-Med.	.040"	35 lbs.	100 ft.	2.32
H 195	656-Thin	.025"	15 lbs.	100 ft.	
H 196	654-Std.	.032"	20 lbs.	100 ft.	



SHAFT FITTINGS
Coupling Extender
Couplings for extending shafts of volume
conduits, cables, capacitors, etc., or for gang-
ing single units, even when shafts are not of the
same diameter. Insulated types are made of
elco phenolic. Extenders for decreasing or
increasing shaft diameter and for extending
length. 60 H 366 has 1/2" opening, 1/2"
dia. Shaft length on all extenders, 1/2"; overall
length, 1 1/2". Av. shpg. wt., 4 oz.

Brass	Insulated	Type	Size
H 105	41 H 111	Coupling	1/2" to 1/2"
H 106	41 H 112	Coupling	1/2" to 1/2"
H 107	41 H 113	Coupling	1/2" to 1/2"
H 108	41 H 113	Extender	1/2" to 1/2"
H 109	41 H 113	Extender	1/2" to 1/2"

Any of Above.....EACH 18¢

F. JOHNSON FLEXIBLE SHAFTS

Non-rusting phosphor-
bronze flexible shafts
with 1/2" hubs. Ideal for
connecting out-of-line shafts together. Handy
accessory for Amateurs, labs, etc. Permit up to
90 degrees angular control, 2 oz.
H 412, 115-253. Length, 3'. EACH 57¢
H 412, 115-254. Length, 6'. EACH 83¢

HAMMARLUND COUPLINGS

Type FC-46S. Sturdy, slip-
proof insulated coupling. Excel-
lent for providing flexible link-
age between angularly misaligned
shafts. Maximum torque is lim-
ited only by holding power of the
4 set screws (2 on each side).
For 1/2" dia. shaft. Shaft clearance, 1/8". Flash
volume, 5000 v. Size, 1 1/2 x 1 1/2". 3 oz.
42 H 403.....EACH 1.10

Type FNC-46S. As above, but non-insulated
type. Durable, heavy-duty construction. Main-
tains firm, slip-proof grip. Has flexible arms
which compensate for shaft misalignment.
Nickel-plated brass ring, 1 1/2" diameter x 1/2".
Shpg. wt., 3 oz.
42 H 404.....EACH 93¢

INSULATED COUPLING

For coupling drive shafts to ca-
pacitors, gang switches, controls
and other components. Bakelite
insulation. Hubs drilled to fit
1/4" shafts; secured by hold rig-
idly. Shpg. wt., 2 oz.
42 H 405.....EACH 53¢

MILLEN COMPONENTS

FLEXIBLE COUPLINGS

Popular 39000 series flexible
couplings. Designed to provide
higher flexibility, no backlash,
even break-down loadages, small
diameter and accurate align-
ment. In addition to improved
versions of conventional types,
there are original design, units.
39001 is insited; 39006 "slide-action" type
for out-of-line or eccentric shaft motion. 39005
(high torque) like 39001 but not insulated.
39016 (illus) molded as single unit to resist
mechanical shock; has solid insulating barrier
diaphragm. All for 1/2" shafts. 2 oz.

Stock No.	Type	Description	EACH
43 H 208	39001	Universal joint	48¢
43 H 212	39005	Universal joint	
43 H 213	39006	Slide action	
43 H 214	39016	Barrier	

MINIATURIZED COUPLINGS

For limited space use. Type
M006 (illus.) is universal
joint style made of nickel-
plated brass with staitite
ceramic insulation and
spring fingers. Type 39003
is solid brass for 1/4" shafts;
M006 is for 1/4" shafts. Av.
shpg. wt., 2 oz.

Stock No.	Type	Description	EACH
43 H 205	M006	Univ. joint coupling	75¢
43 H 207	39003	Solid brass coupling	24¢

DRIVE MECHANISM

Type 10000 Worm Drive. A
ruggedly constructed drive
mechanism offering a 16-to-1
step-down ratio. Brass bearing
frame drilled for secure
mounting on panel or chassis
base. Spring-loaded split gears
for smooth operation, min. backlash. 1/4" left/
right-hand shafts. 3x2x1 1/2". 6 oz.
43 H 216.....EACH 9.75

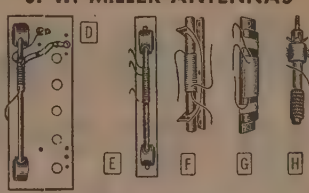
SMITH PANEL BEARING ASSEMBLY

For use with couplings at
left on panels up to 1/2"
thick mounted away from
controls. Brass bearing as-
sembly for knob with 1/4"
shaft on other side. Av.
shpg. wt., 3 oz.
44 H 094. Overall length, 3".....EACH 33¢
44 H 095. Overall length, 6".....EACH 39¢
44 H 096. Bearing only.....EACH 15¢

NATIONAL FRONT-PANEL RIGHT-ANGLE DRIVE

Type RAD. Front panel
control for variable
capacitors, po-
tentiometers,
etc., at right an-
gles to panel.
Saves space by permitting greater
freedom in parts layout. May be
used to drive two units. Die-cast aluminum
housing and gears. 1 1/2 x 1 1/2 x 1 1/2". 6 oz.
42 H 173.....EACH 4.31

J. W. MILLER ANTENNAS



FERRITE ROD ANTENNA

Type 706A. For universal replacement use.
Uses highly efficient design; improves re-
ception of distant stations. Extremely easy to
adjust—simply slide coil along ferrite rod to
peak antenna. Non-directional. Replaces any
loop antenna. 3/4 x 9 1/2". Shpg. wt., 5 oz.
60 G 893.....EACH 1.94

TRANSISTOR LOOP ANTENNA

Type 2000. Has fixed inductance loop;
picks up adequate signal to the first stage.
Inductor is tapped to match the 600 ohm input
impedance of the transistor. Frequency range
is 540-1650 kc when used with a 365 mmf vari-
able capacitor. 1 1/4 x 9 1/2". Shpg. wt., 3 oz.
60 G 894.....EACH 1.91

TRANSISTOR ANTENNA ROD

Type 2001. Matches 600 ohm input imped-
ance. Inductance, 240 µh. Tunes with 365
mmf. 3/4 x 3 3/4". Shpg. wt., 4 oz.
60 G 976.....EACH 1.76

STRIP TRANSISTOR ANTENNA ROD

Type 2004. Matches 600 ohm input imped-
ance. Inductance, 240 µh. Tunes with 365
mmf. 1 1/4 x 3 3/4". Shpg. wt., 4 oz.
60 G 978.....EACH 1.76

SUB-MINIATURE ANTENNA ROD

Type 2002. Adjustable from 35-300 µh. Hi-
Q coil tunes with 500 mmf. Mounts in 1/4"
hole or bracket supplied. Matches 600 ohm
input. Size, 1/2 x 2 1/2". Shpg. wt., 3 oz.
60 G 980.....EACH 1.09

SQUARE DIAL PLATES

Attractive anodized alumi-
num dial plates with black
scales. Use with 1 1/4" bar
knob. Gives custom-built
look to hi-fi and P.A. amps,
preamps, recorders, etc.
Type 25, 2 1/2 x 2 1/2", with 1 1/2"
center hole. Shpg. wt., 2 oz.

Stock No.	Type	Description
43 H 100	448	Treble, 0-10
43 H 101	447	Bass, 0-10
43 H 102	429	Treble, 5-0-5
43 H 103	428	Bass, 5-0-5
43 H 113	416	Microphone, 1, 0-10
43 H 114	417	Microphone, 2, 0-10
43 H 116	415	Microphone, 0-10
43 H 117	413	Master Gain, 0-10
43 H 118	412	Gain, 0-10
43 H 119	422	Gain, 5-0-5
43 H 120	411	Tone, 0-10
43 H 121	426	Volume, 0-10
43 H 122	414	Record, 0-10
43 H 124	427	Fader, 5-0-5
43 H 125	430	Expansion, 0-10
43 H 126	446	Phono, 0-10
43 H 129	423	Increase, with arrow
43 H 130	410	No title, 0-10

Any of Above.....EACH 52¢

ROUND DIAL PLATES

Etched aluminum scale with
black background. 1 1/4" dia.
Type 25 has clockwise arrow
labeled "Volume" "One-10"
mtg. For amplifiers, modulators,
phonos, etc. Use with 1 1/4" bar
knobs. 1 1/2" center-hole. 2 oz.

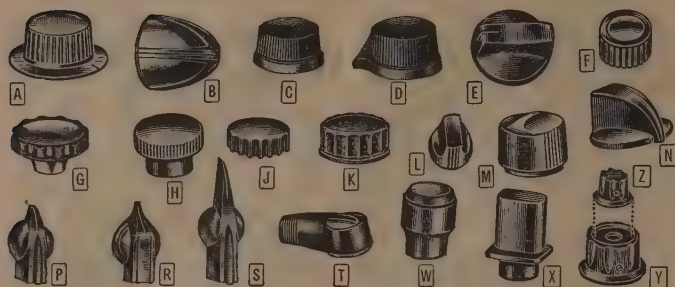
Stock No.	Type	Description	EACH
43 H 131	25	Volume	28¢
43 H 135	569	0-100, 180°	
43 H 136	905	0-100, 270°	

WALDOM "OFF-ON" SWITCH PLATE

Economy-priced "Off-
On" type. Etched alumi-
num with black back-
ground. Has polished
aluminum letters and
border. Size, 1 1/2 x 1 1/4".
2 oz.
43 H 139.....EACH 17¢

Knobs and Dials

HARRY DAVIES MOLDED KNOBS



A wide selection of plastic knobs for replacement use on majority of radios and TV sets. Figs. C and D are for small radios. *For knurled shafts; †screws into 8-32 threaded shaft; ‡screws on 6-32 threaded shaft; §self-locating

friction fit for flat wire shafts; all others equipped with setscrews to permit use with either round or flattened 1/4" shafts. †Indicates types not manufactured by Harry Davies. **For dual concentric shafts. Av. shpg. wt., 3 oz.

Stock No.	Fig.	Size	Color	TWO FOR	Stock No.	Fig.	Size	Color	TWO FOR
44 H 127	A	1 1/2"	Black	28¢	44 H 149	K	1 1/2"	Walnut	36¢
44 H 128	A	1 1/2"	Red	30¢	44 H 165	L	1 1/2"	Black	36¢
44 H 129	A	1 1/2"	Black	26¢	44 H 148	K	1 1/2"	Black	22¢
44 H 133	B	3/4"	Black	26¢	44 H 170	M	3/4"	Black	22¢
44 H 130	B	3/4"	Black	26¢	44 H 171	N	1 1/2"	Black	22¢
44 H 131	B	3/4"	Walnut	26¢	44 H 172	P	1 1/2"	Black	20¢
44 H 132	B*	3/4"	Black	14¢	44 H 173	P	1 1/2"	Red	22¢
44 H 136	C	1"	Black	10¢	44 H 174	P	1 1/2"	Black	26¢
44 H 134	C	1"	Black	18¢	44 H 175	R	1 1/2"	Black	34¢
44 H 135	C	1"	Walnut	18¢	44 H 176	S	2"	Black	36¢
44 H 137	C	1"	Black	26¢	44 H 177	S	2"	Red	36¢
44 H 138	D	1 1/2"	Black	18¢	44 H 178	S	2"	Black	44¢
44 H 139	D*	1 1/2"	Black	10¢	44 H 184	T	1 1/2"	Black	38¢
44 H 140	E	1"	Black	28¢	44 H 183	T	2 1/2"	Black	38¢
44 H 141	E	1"	Black	28¢	44 H 182	Z	3/4"	Black	28¢
44 H 142	F	1 1/2"	Red	26¢	44 H 179	Z	3/4"	Black	32¢
44 H 143	F	1 1/2"	Walnut	52¢	44 H 180	Z	1 1/2"	Black	36¢
44 H 144	G	3/4"	Black	26¢	44 H 181	**Z&V	3/4" - 1 1/2"	R and B	60¢
44 H 145	G	3/4"	Black	36¢	44 H 169	†W	3/4"	Red	12¢
44 H 146	H†	1"	Black	16¢	44 H 168	†W	3/4"	Black	12¢
44 H 147	J	1"	§Walnut	36¢	44 H 166	†X	5/8"	Red	18¢
					44 H 167	†X	5/8"	Black	18¢

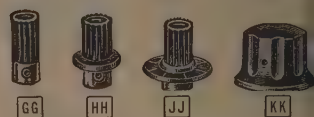
HARRY DAVIES FLUTED KNOBS



An excellent selection of high-quality fluted knobs. Functionally designed—add custom appearance to amateur, experimental, and test equipment. Durable, high-gloss bakelite. Metal inserts with setscrew to fit flattened round 1/4" shafts. Shpg. wt., 4 oz.

Stock No.	Fig.	Dia.	1-24, EA.	25-UP, EA.
44 H 117	DD	1 1/2"	.36	.315
44 H 118	DD	1 1/2"	.36	.349
44 H 119	DD	1 1/2"	.39	.349
44 H 120	DD	2"	.52	.455
44 H 121	FF	1 1/2"	.23	.203
44 H 122	FF	1 1/2"	.24	.21
44 H 123	FF	1 1/2"	.27	.238
44 H 124	FF	2"	.40	.35
44 H 125	EE	1 1/2"	.44	.385
44 H 126	EE	2"	.54	.473

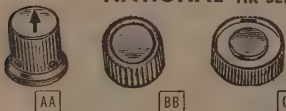
MILLEN MINIATURE KNOBS



Black plastic knobs with brass inserts for 1/4" diameter shafts. Developed primarily for use in miniaturized equipment. In certain designs where complete miniaturization is not paramount, a combination of standard and miniature knobs may possibly be used to advantage. Type A018, A007 and A019 have screwdriver slot in top. Overall height: A006, 1/2"; A007, A018 and A019, 3/4". Av. shpg. wt., 4 oz.

No.	Type	Fig.	Size	EA.
43 H 253	A019	GG	1/4" dial dia.	.36
43 H 254	A018	HH	3/4" dial dia.	.39
43 H 255	A006	KK	1/2" dial dia.	.42
43 H 256	A007	KK	3/4" dial dia.	.48

NATIONAL HR SERIES KNOBS



A matched line for industrial and consumer use. In a variety of styles and sizes. All knobs in this series share a family resemblance, giving job a unitized appearance.

Stock No.	Type	Fig.	Description	Wt.	EA.
42 H 180	HRM	AA	Satin chrome finish, 3/4" dia.	2 oz.	.96
42 H 176	HR	BB	Black; white dot, 1/4" dia.	2 oz.	.39
42 H 177	HR	BB	Gray; same as above	2 oz.	.39
42 H 178	HRT	CC	Black; chrome insert, 2 1/2" dia.	3 oz.	1.04
42 H 185	HRT-M	CC	Same as above, but 1 1/2" dia.	2 oz.	.58
42 H 179	HRT	CC	Gray; chrome insert, 2 1/2" dia.	3 oz.	1.04
42 H 186	HRT-M	CC	Same as above, but 1 1/2" dia.	2 oz.	.58

NATIONAL VERNIER DIALS



Blank dials with 5:1 drive. Hairline pointers; pinholes for calibration. Blank wrinkle finish. With extra scales, hdwe., and hub for 1/4" shafts.

Type ACN. The famous original of this type with smart styling. Large-size vernier dial for easy direct calibration of 5 blank scales. Knob has bright chrome insert. 5" high, 7 1/4" wide. Shpg. wt., 1 1/4 lbs. 42 H 169.....7.80

Type SCN. Vernier dial same as above but intermediate in size. 4 1/4" high, 6 1/4" wide. Ideal for use where space is limited. Shpg. wt., 1 lb. 42 H 170.....7.80

Type ICN. Has large, easy-to-read, evenly illuminated vernier dial. 5 1/4" high, 7 1/4" wide. Lights in upper corners. With standard bayonet sockets and mounting screws. Less lamps. Shpg. wt., 1 1/4 lbs. 42 H 172.....7.80

Type MCN. Small size vernier dial. Similar to above but not illuminated. 2 3/4" high, 3 3/4" wide. Perfect for mobile gear and other small units. 3 blank scales. Mechanism extends 1/4" below frame. 10 oz. 42 H 171.....7.20

NATIONAL CALIBRATED KNOBS



For any equipment, Types R, HRS-3, and HRS-5 are numbered 0-10 over and shown in scale column of table below. HRS-4 has single, etched center line. A fit 1/4" shafts. HRS types of molded Tenite with chromed bevel dial; Type of molded bakelite, flat aluminum dial. Wt., 2 oz.

Stock No.	Type No.	Fig.	Color	Scale	Dia.	EACH
42 H 106	HRS-3	LL	Black	0-10; 300°	1 1/2"	.66
42 H 107	HRS-3	LL	Gray	0-10; 300°	1 1/2"	.66
42 H 125	HRS-4	LL	Black	1-line	1 1/2"	.66
42 H 126	HRS-4	LL	Gray	1-line	1 1/2"	.66
42 H 128	HRS-5	LL	Black	0-10; 180°	1 1/2"	.66
42 H 129	HRS-5	LL	Gray	0-10; 180°	1 1/2"	.66
42 H 136	R	MM	Black	0-10; 180°	1 1/2"	.69

MILLEN MULTI-SCALE DIALS



NN Type 10035 Multi-Scale Dial. A deluxe illuminated slide-rule dial. Two built-in pilot lights provide even illumination. Has 12 to 1 drive with 4 blank scales for calibration and one 0-10 logging scale. Cardboard scale supplied can be used on both sides. Clear plastic dial window. Ample panel space for 2 small controls. 8 1/2" x 6 1/2". 43 H 241.....7.20

PP Type 10039 Midget Panel Dial. Economy model. Excellent for small transmitters, receivers and measurement equipment. Drive ratio is 8 to 1. Totally self-contained mechanism eliminates back-of-panel interference. Has 5 blank scales for calibration and one 0-10 logging scale. Black finish. Size, 4 3/4" x 3 1/4". Shpg. wt., 13 oz. 43 H 242.....3.20

Allied stocks an extensive line of popular electronic components for experimenters, hobbyists and builders. A complete components index is given in the back of this book to help you locate specific items you require. An index of manufacturers is also given for your convenience. Use the Allied catalog as your guide to everything in electronics.

Insulators, Coil Forms, Polystyrene Sheets and Rods

E. F. JOHNSON INSULATORS



Off Insulators. High-glaze porcelain, except 1 steatite. Nickel-plated brass hardware. 135-65, 135-62, 135-68-2 are ribbed; others are drawn bases. 1 Banana jack and solder lug, as in Fig. B. 740 jack is hard .166" inner dia., and 760 is jumbo .277" banana jack. *Like C, but square base and 4 mtg. holes. Av. wgt., 1 lb.

Stock No.	Mfr's Type	Fig.	Body Ht.	Min. Dia.	Max. Dia.	Mtg. Ctrs.	Hardware	EACH
135-208	A	1 1/2"	3/4"	1 1/2"	1 1/2"	10-32	.32	
135-20-2	B	1 1/2"	3/4"	1 1/2"	1 1/2"	740-1	.35	
135-223	A	1 1/2"	3/4"	1 1/2"	1 1/2"	740-2	.35	
135-22-2	B	1 1/2"	3/4"	1 1/2"	1 1/2"	740-1	.26	
135-245	A	1 1/2"	3/4"	1 1/2"	1 1/2"	6-32	.16	
135-60	*	2 1/2"	1 1/2"	2 1/2"	1 1/2"	1/4-20	1.20	
135-62	A	2 1/2"	1 1/2"	2 1/2"	1 1/2"	1/4-20	.62	
135-65	B	2 1/2"	1 1/2"	2 1/2"	1 1/2"	740-1	.31	
135-65-2	C	2 1/2"	1 1/2"	2 1/2"	1 1/2"	740-1	.39	
135-66	D	2 1/2"	1 1/2"	2 1/2"	1 1/2"	1/4-20	.87	
135-66-2	D	2 1/2"	1 1/2"	2 1/2"	1 1/2"	760-1	.99	
135-67	D	2 1/2"	1 1/2"	2 1/2"	1 1/2"	1/4-20	1.25	
135-68	*	2 1/2"	1 1/2"	2 1/2"	1 1/2"	10-32	.54	
135-68-2	*	2 1/2"	1 1/2"	2 1/2"	1 1/2"	740-1	.60	

in Bushings. Ideal high-voltage terminals. 135-50, 135-51, 135-52, 135-55 are steatite, with nickel-plated brass rod and nuts; 135-53, 135-54 are porcelain, less hardware. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Fig.	Body Ht.	Min. Dia.	Max. Dia.	Panel Hole	EACH
135-50	H	1 1/2"	3/4"	1 1/2"	1 1/2"	1 1/2"	.40
135-51	H	1 1/2"	3/4"	1 1/2"	1 1/2"	2 1/2"	.57
135-52	H	1 1/2"	3/4"	1 1/2"	1 1/2"	1 1/2"	.89
135-53	F	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1 1/2"	.35
135-54	E	1 1/2"	1 1/2"	2 1/2"	2 1/2"	2 1/2"	1.10
135-55	G	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1 1/2"	.31

JOHNSON ANTENNA INSULATORS

High-quality, strain-type insulators for use in antenna construction. Glazed porcelain surfaces resist moisture absorption and prevent RF leakage. Types 136- and 136-112 are wet-process, 1" diameter wet-process porcelain; have 800 lbs. breaking strength. Type 104 dry-process glazed porcelain; has 400 lbs. breaking strength. 136-112, 112, 800 lbs. breaking strength.

Stock No.	Mfr's Type	Size	Shpg. Wt.	EACH
H 254	136-104	4"x5" sq.	4 oz.	.28
H 255	136-107	7"x1" dia.	10 oz.	1.30
H 256	136-112	12"x1" dia.	1 1/4 lb.	1.85

POLYSTYRENE SHEETS, RODS AND TUBING

Excellent selection of high-grade polystyrene sheets, rods and tubing. Ideal for AC, DC and applications including VHF, UHF, and RF. Rods and tubing are excellent material making insulators or coil forms. Sheets may be used for shielding or dial and gauge glass. Have extremely low-loss factor at ultra-high frequencies. Have high dielectric strength, excellent resistance and insulating properties, moisture absorption. Highly stable under varying climatic conditions. Always retain final dimensions—will not stretch or warp. Easy to cut any size. May be sawed, drilled or sanded. Sheets are transparent. All tubing has satin finish except 1" clear; all rods are frosted except 1" clear.

POLYSTYRENE SHEETS

Stock No.	Size	Thickness	Shpg. Wt.	EACH	Stock No.	Size	Thickness	Shpg. Wt.	EACH
150	12x12"	1/8"	8 oz.	4.07	43 HX 155	12x24"	1/8"	4 lbs.	7.64
151	12x12"	3/16"	10 oz.	4.70	43 HX 156	12x24"	3/16"	6 lbs.	9.97
152	12x12"	1/4"	12 oz.	5.39	43 HX 157	12x24"	1/4"	6 lbs.	10.39
153	12x12"	1/2"	1 lb.	7.01	43 HX 158	12x24"	1/2"	6 lbs.	12.89
154	12x12"	3/4"	1 1/4 lbs.	7.99	43 HX 162	12x24"	3/4"	7 lbs.	15.34

12" POLYSTYRENE RODS

Stock No.	Dia.	Shpg. Wt.	EACH	Stock No.	Dia.	Shpg. Wt.	EACH
164	1/4"	2 oz.	.03	43 H 170	1/2"	6 oz.	.47
165	3/8"	3 oz.	.07	43 H 171	3/4"	8 oz.	.71
167	1/2"	5 oz.	.12	43 H 172	1"	8 oz.	.98
168	5/8"	6 oz.	.18	43 H 173	1 1/4"	8 oz.	1.29
169	3/4"	6 oz.	.25	43 H 174	1 1/2"	8 oz.	1.86

12" POLYSTYRENE TUBING

Stock No.	O.D.	I.D.	Shpg. Wt.	EACH	Stock No.	O.D.	I.D.	Shpg. Wt.	EACH
175	1/2"	1/8"	2 oz.	.14	43 H 179	3/8"	1/4"	4 oz.	.31
176	3/8"	1/8"	3 oz.	.18	43 H 180	1/2"	1/4"	4 oz.	.39
177	1/2"	1/8"	3 oz.	.18	43 H 181	3/4"	1/2"	6 oz.	.55
178	5/8"	1/8"	3 oz.	.25					

Ultra-Steatite Cone Insulators. Non-ribbed. With hardware. Shpg. wt., 5 oz.

Stock No.	Type	Body Ht.	Min. Dia.	Max. Dia.	EACH
46 H 224	135-500	1 1/2"	1 1/2"	3/4"	.23
46 H 231	135-501	1 1/2"	1 1/2"	3/4"	.31
46 H 232	135-502	1 1/2"	1 1/2"	1"	.51
46 H 233	135-503	1 1/2"	1 1/2"	1 1/4"	.77
46 H 234	135-504	1 1/2"	1 1/2"	1 1/2"	1.34

Thru-Panel Type. Porcelain except 1 steatite. *108-740 jack. 12 oz.

Stock No.	Mfr's Type	Fig.	Body Ht.	Min. Dia.	Max. Dia.	Panel Hole	Hardware	EACH
46 H 200	135-40-1	K	1 1/2"	1 1/2"	1 1/2"	7/8"	10-32	.42
46 H 201	135-40-2	L	1 1/2"	1 1/2"	1 1/2"	7/8"	*	.53
46 H 202	135-42-1	K	1 1/2"	1 1/2"	1 1/2"	7/8"	10-32	.42
46 H 203	135-42-2	L	1 1/2"	1 1/2"	1 1/2"	7/8"	*	.50
46 H 205	135-44-1	K	1 1/2"	1 1/2"	1 1/2"	7/8"	6-32	.31
46 H 206	135-45	M	2 1/2"	2 1/2"	1 1/2"	1 1/2"	10-32	.59
46 H 208	135-45-2	N	2 1/2"	2 1/2"	1 1/2"	1 1/2"	*	.69
46 H 210	135-46	K	3 1/2"	1 1/2"	1 1/2"	1 1/2"	1/4-20	1.50
46 H 211	135-47	K	3 1/2"	1 1/2"	1 1/2"	1 1/2"	1/4-20	2.75
46 H 212	135-48	K	3 1/2"	1 1/2"	1 1/2"	1 1/2"	10-32	.95
46 H 216	135-48-2	N	2 1/2"	3/4"	1 1/2"	1 1/2"	*	1.05

FEEDER SPREADERS

Feeder spreaders for constructing high efficiency, open-wire antenna feeders and transmission lines. Silicone impregnated, moisture-proof porcelain. 1/2x1/2". Av. shpg. wt., 3 oz.

Stock No.	Type	Length	EACH
46 H 257	136-122	2"	.17
46 H 258	136-124	4"	.28
46 H 259	136-126	6"	.40

ANTENNA INSULATORS

P 46 H 051. Glazed porcelain insulator. Has ribbed construction to provide long leakage path. 2 1/2" long. Shpg. wt., 2 oz.

PER PKG., .21

R 46 H 052. White porcelain strain insulator. 1 1/2x1/2" dia. Breaks up guy lines into non-resonant lengths. 2 oz. 4 per pkg.

PER PKG., .29¢

S 46 H 053. Standard nail knob for single leads or 1" open lines. 1 1/2x1/2" dia. Shpg. wt., 4 oz. 4 per pkg.

PER PKG., .19¢

POLYSTYRENE COIL FORMS

A wide selection of coil forms for winding RF coils of all types. Feature low loss, high dielectric polystyrene construction—produce coils of exceptional stability. Excellent for plug-in type regenerative shortwave receiver coils; plate, grid or tank coils in VFO's or low-power transmitters; grid-dip meter coils; VHF equipment, etc. The 4, 5, and 6 prong standard forms fit standard tube sockets; 5 and 6 prong miniature coil forms fit Amphenol Type 78-SSS and 78-S6S miniature sockets (listed under "Retainer Ring Sockets" in the Amphenol pages of this catalog). Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	Size	EA.
46 H 693	24-5H	5-Prong Min.	1 1/4x1 1/4"	.28
46 H 694	24-6H	6-Prong Min.	1 1/4x1 1/4"	.33
46 H 695	24-4P	4-Prong Std.	2 1/4x1 1/4"	.37
46 H 696	24-5P	5-Prong Std.	2 1/4x1 1/4"	.27
46 H 697	24-6P	6-Prong Std.	2 1/4x1 1/4"	.40

MILLEN MOLDED COIL FORMS

Type 4500A. Molded-mica, phenolic base type coil forms. Four-prong type. For shortwave receivers and low-power transmitters. Size: 1" diameter; 1 1/2" winding length; 2 1/2" overall. Shpg. wt., 2 oz.

43 H 217..... 51¢

Type 4500S. Same as 4500A, but has 5 prongs. Shpg. wt., 2 oz.

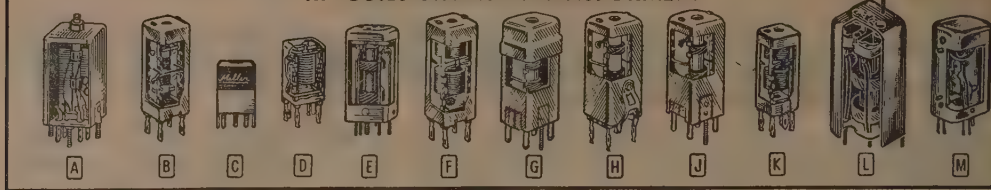
43 H 218..... 51¢

Type 4500. Same as Type 4500S above, but without prongs. Designed for screw mounting. Shpg. wt., 2 oz.

43 H 219..... 39¢

J. W. Miller Coils and IF Transformers

RF COILS AND IF TRANSFORMERS



EXACT-REPLACEMENT COLOR TV COMPONENTS

A Series of components intended as exact replacements for parts used in various color TV receivers built by R.C.A. Types 6021 through 6028 are designed for use in the 3-58-mc portion; Types 7105-R through 7110-R are for use in the 4.5-mc portion. Transformer tuning is by means of iron cores accessible at both top and bottom. Type 6021 is a Bandpass Transformer; 6022, a Bandpass Coil; 6026, Chroma Reference Oscillator; 6028, Chroma Sync. Take Off. Size, 2 3/4x1 1/4" sq. Wt., 4 oz.

Stock No.	Mfr's Type	Original Set Mfr. Part No.	EACH
61 G 165	6021	78887	2.06
61 G 166	6022	78888	1.50
61 G 167	6023	78886	3.23
61 G 170	6024	78889	2.59
61 G 171	6025	100430	4.70
61 G 172	6026	78891	3.23
61 G 173	6027	78892	1.62
61 G 175	6029-R	105213	3.88
61 G 176	6030-R	105214	2.47
61 G 177	6031-R	106385	1.15
61 G 178	6032-R	106386	1.23
61 G 179	6033-R	106387	1.06
61 G 180	6034-R	105292	1.06
61 G 300	6035-R	105293	1.06
61 G 302	6036-R	105294	4.23
61 G 303	6337-R	102185	1.18
61 G 304	6338-R	103196	1.94
61 G 305	7105-R	105286	1.15
61 G 306	7106-R	105287	2.94
61 G 307	7107-R	105288	1.76
61 G 308	7108-R	106381	1.26
61 G 309	7109-R	106382	2.00
61 G 310	7110-R	106383	2.00

FM TRANSISTOR TRANSFORMERS

B High-quality IF, Discriminator, and Ratio Detector transformers for use in battery-operated, transistorized FM receivers. Frequency, 10.7 mc. Indicates with diodes. With mounting hardware. Size, 2" high by 3/4" square. Av. shpg. wt., 4 oz.

Stock No.	Type	Use	E.A.
61 G 311	1601	1st IF Input	2.23
61 G 312	1602	2nd IF Instage.	2.32
61 G 313	1603	3rd IF Output	2.32
61 G 314	1604	Discriminator	2.50
61 G 315	1605	Ratio Detector*	4.70
61 G 316	1606	Ratio Detector	2.29

TRANSISTOR IF TRANSFORMERS

C Subminiature. A tiny 455-kc IF transformer with cup-core construction for top performance. Only 3/4" square by 1/4" high. Primary impedance, 25,000 ohms; secondary impedance, *600 ohms, 1100 ohms. Will match CK760 and CK761 transistors. Primary is tuned and tapped. Shpg. wt., 3 oz.
60 G 802, Type 9-C1*, Input.
60 G 803, Type 9-C2, Output.. E.A. 2.35

D Miniature. High-quality 455-kc IF transformer for compact transistor receivers. Primary impedance, 25,000 ohms; secondary impedance, *600 ohms, 1100 ohms. Will match CK760 and CK761 transistors. Primary is tuned and tapped. Shpg. wt., 3 oz.
60 G 896, Type 2041*, Input.
60 G 973, Type 2042, Output.. E.A. 2.06

MIDGET IF TRANSFORMERS

E Air-core mica trimmer tuned IF's. Excellent gain and selectivity. 6-32 spade-bolt. Size, 1 1/4x1 3/8x2". Shpg. wt., 4 oz.

Stock No.	Type	Freq.	Use	E.A.
60 G 735	112-C1	455 kc	Input	
60 G 736	112-C2	455 kc	Interstage	
60 G 737	112-C3	455 kc	CT Output	1.94
60 G 738	112-C4	455 kc	CT Output	

MINIATURE IF TRANSFORMERS

F Shell core, permeability tuned IF transformers. For experimental and general replacement use. Tunable powdered iron cores; tuning from top and bottom of shield. *Built-in diode filter capacitors. Size: 3/4" x 3/4" x 2". With mtg. hardware. Shpg. wt., 4 oz.

Stock No.	Type	Freq.	Use	E.A.
60 G 727	12-C1	455 kc	IF Input	1.59
60 G 728	12-C2	455 kc	IF Output	1.59
60 G 787	12-C6	455 kc	IF Output*	1.68
60 G 716	12-C7	455 kc	Input (Batt.)	1.59
60 G 717	12-C8	455 kc	Output (Batt.)	1.59
60 G 718	12-C9	455 kc	Input (AC-DC)	1.59
60 G 719	12-C10	455 kc	Output (AC-DC)	1.59
61 G 317	12-C12	455 kc	Tapped Pri.	1.91
61 G 318	12-C30	455 kc	IF Input	1.59
61 G 319	12-C31	455 kc	IF Output	1.59
60 G 320	12-C45	455 kc	Discriminator	2.32
60 G 729	12-H1	282 kc	IF Input	1.71
60 G 731	12-H2	282 kc	IF Output	1.71
60 G 788	12-H6	282 kc	IF Output*	1.76
61 G 321	13-W1	1500 kc	Input or Inter.	1.62
61 G 322	13-W2	1500 kc	IF Output	1.62
60 G 732	1463	10.7 mc	Input (x'tal.)	1.91
60 G 733	1464	10.7 mc	Discriminator	2.20
61 G 323	1464-WB	10.7 mc	Discriminator	2.21
60 G 734	1465	10.7 mc	Ratio Detect.	2.29
61 G 324	1465-WB	10.7 mc	Ratio Detect.	2.30
61 G 325	1725	455 kc	Output (x'tal.)	1.91
61 G 326	1726	455 kc	IF Input	1.91
60 G 790	6204	4.5 mc	Discriminator	2.20
60 G 791	6205	4.5 mc	Ratio Detect.	2.20
61 G 351	6230	4.5 mc	TV Converter	1.80
61 G 352	6231	4.5 mc	TV 1st IF	1.80
61 G 353	6232	42.5 mc	TV 2nd IF	1.59
61 G 354	6233	45.5 mc	TV 3rd IF	1.92
61 G 355	6234	44 mc	TV 4th IF	1.50
61 G 327	6260	21.25 mc	I.F. Trans.	2.50
61 G 328	6261	21.25 mc	Discriminator	2.65
61 G 350	6262	21.25 mc	Ratio Detect.	2.65

MINIATURE IF PRINTED-CIRCUIT TRANSFORMERS

F For replacement and experimental use in receivers. Shell-core, permeability tuned. Tune from top and bottom of shield. *With diode filter capacitors. 3/4" sq. x 2". With mounting hardware. Av. shpg. wt., 4 oz.

Stock No.	Type	Freq.	Use	E.A.
61 G 356	13-PH1	262 kc	IF Input	1.68
61 G 357	13-PH2	262 kc	IF Output	1.68
61 G 358	13-PH6	262 kc	IF Output*	1.76
61 G 359	13-PC1	455 kc	IF Input	1.62
61 G 360	13-PC2	455 kc	IF Output	1.62
61 G 361	13-PC6	455 kc	IF Output*	1.71
61 G 362	13-PC7	455 kc	Input (Batt.)	1.62
61 G 363	13-PC8	455 kc	Output (Batt.)	1.62
61 G 364	13-PC3	455 kc	Input (AC-DC)	1.62
61 G 365	13-PC10	455 kc	Output (AC-DC)	1.62
61 G 712	1463-PC	10.7 mc	Input or Inter.	1.91
61 G 713	1464-PC	10.7 mc	Discriminator	2.20
61 G 714	1465-PC	10.7 mc	Ratio Detect.	2.30
61 G 717	6203-PC	4.5 mc	Input or Inter.	1.94
61 G 735	6204-PC	4.5 mc	Discriminator	2.20
61 G 792	6205-PC	4.5 mc	Ratio Detect.	2.20
61 G 796	6230-PC	44 mc	TV Converter IF	1.82
61 G 912	6231-PC	44 mc	TV 1st IF Trap	1.82
61 G 919	6232-PC	42.5 mc	TV 2nd IF	1.82
61 G 924	6233-PC	45.5 mc	TV 3rd IF	1.82
61 G 947	6234-PC	44 mc	TV 4th IF	1.62

EXACT-REPLACEMENT IF COILS

G Exact replacements for IF transformers and coils used in TV sets and radios. With mtg. clip. 3/4x3/4x2". Av. wt., 4 oz.

Stock No.	Type	Original Set Part No.	E.A.
61 G 942	12-C11	RTL-143 and 163	1.59
61 G 943	12-C13	RTL-172	2.06
61 G 944	6206-PC	RTD-026 (WT56 X38)	2.91
61 G 945	6207-PC	RTD-025 (WT56 X37)	2.44
61 G 946	6208-PC	RTD-020	2.91
61 G 947	6209-G1	RTD-024 (WT56 X36)	2.79

MINIATURE "J-TRAN" TOP-TUNED IF TRANSFORMERS

H Units have hollow hexagonal-hole cores for either double or single-ended tuning. Mount by snap fastener. 3/4x3/4x2". *With diode filter. Av. wt., 4 oz.

Stock No.	Type	Freq.	Use	E.A.
61 G 948	14-H1	262 kc	IF Input	1.71
61 G 951	14-H2	262 kc	IF Output	1.71
61 G 953	14-H6	262 kc	IF Output*	1.76
61 G 954	14-C1	455 kc	IF Input	1.59
61 G 955	14-C2	455 kc	IF Output	1.59
61 G 956	14-C6	455 kc	IF Output*	1.68
62 G 465	14-C7	455 kc	Input (Batt.)	1.59
62 G 466	14-C8	455 kc	Output (Batt.)	1.59
62 G 467	14-C9	455 kc	Input (AC-DC)	1.59
62 G 468	14-C10	455 kc	Output (AC-DC)	1.59
62 G 469	6270	4.5 mc	Input or Inter.	1.71
62 G 470	6271	4.5 mc	Ratio Detect.	2.91

MINIATURE PRINTED-CIRCUIT TOP-TUNED IF TRANSFORMERS

Not illus. Similar to above—both cores may be tuned from either end of the shield. 3/4x3/4x2". *With diode filter. Av. wt., 4 oz.

Stock No.	Type	Freq.	Use	E.A.
62 G 471	16-PH1	262 kc	IF Input	1.68
62 G 472	16-PH2	262 kc	IF Output	1.68
62 G 473	16-PH6	262 kc	IF Output*	1.76
62 G 474	16-PC1	455 kc	IF Input	1.62
62 G 475	16-PC2	455 kc	IF Output	1.62
62 G 476	16-PC6	455 kc	IF Output*	1.68
62 G 477	16-PC7	455 kc	Input (Batt.)	1.62
62 G 478	16-PC8	455 kc	Output (Batt.)	1.62
62 G 479	16-PC9	455 kc	Input (AC-DC)	1.62
62 G 480	16-PC10	455 kc	Output (AC-DC)	1.62
62 G 482	6270-PC	4.5 mc	Input or Inter.	1.71
62 G 483	6271-PC	4.5 mc	Ratio Detect.	2.91

MINI MINIAURE TRANSISTOR IF TRANSFORMERS AND COIL

J Only 1/4" sq. by 1/4" high. Have built-in capacitors for higher Q. All 455 kc. *Tuning cap. 78-110 mmf. max. Av. wt., 3 oz.

Stk. No.	Type	Impedance	Use	E.A.
62 G 484	2066	50K-800 ohms	Input	2.00
62 G 485	2067	30K-500 ohms	Instage	2.00
62 G 486	2068	20K-5K ohms	Output	2.00
62 G 488	2065	Matching Oscillator*	Output	2.00

SUBMINIATURE 455-KC IF TRANSFORMERS

K Extremely small IF transformers with excellent gain and bandwidth characteristics. Ferrite-shield cores provide high efficiency. Tuning range 100-1000 kc. Primary is 1/4" square and sec. mica-trimmer tuned. Only 1/4" square by 1 1/4" high. Shpg. wt., 3 oz.
60 G 860, Type 10-C1, Input.
60 G 861, Type 10-C2, Output.. E.A. 1.62

455-KC IF TRANSFORMERS

L Double-tuned air-core, universal input, interstage or output transformers. Universally wound primary and secondary tuned by mica insulated compression-type trimmers for minimum temperature-capacity drift. RETM (EIA) leads. Size, 1 1/4x3/4x2 3/4". Wt., 4 oz.

Stock No.	Type	Application	E.A.
60 G 739	512-C1	Input IF	
60 G 740	512-C2	Interstage IF	
60 G 741	512-C3	Full-wave output IF	1.94
60 G 512	512-C4	Half-wave output IF	

100-KC HI-Q IF TRANSFORMER

M Type 1890-P1. Iron-core transformer with high Q windings for exceptionally sharp selectivity characteristics. Provides high gain and excellent stability. For input or interstage use. 3/4x1 1/4x1 1/4". Wt., 4 oz.
61 G 059..... E.A. 5.80

J. W. Miller Components

COILS, CHOKES, INDUCTORS AND TRANSFORMERS



OUND DETECTOR AND OSCILLATOR TRANSFORMERS

Quality TV components. Type 1468 is a sound ratio detector transformer for 4.5 mc n sets using inter-carrier sound system; provide good operation with only one or stages of amplification preceding it. Type 1469 has two coupled windings: one tap for oscillator circuit; the other centered and balanced for a sine-wave discriminator arrangement (synchrolock). Type 6183 has two coupled windings for Sync. Frequency and audio. All have aluminum shields with spade bolt mtg. Sizes: Type 1468, 1 1/2 x 2 1/2"; 6194 and 6183, 1 1/2 x 1 1/2 x 2 1/2". 5 oz.

Stock No.	Mfr's Type	Description	EACH
G 089	6183	Horizontal Oscillator	2.06
G 090	6194	Horizontal Oscillator	2.00
G 091	1468	Ratio Detector	2.41

SYNC STABILIZER (RINGING) COIL

Type 6210. Has bakelite form with 3/8" mounting clip. 16-42 mh range. Size, 3/4 x 3/4 x 1 1/2". Shpg. wt., 2 oz.

G 092.....1.62

HORIZONTAL CLIP AND WIDTH CONTROLS

Iron-core variable inductance coils for horizontal sweep circuits. Permit adjustments over a wide inductance range to obtain the best match for best operating characteristics. G 093 winding. Mtg. clip fits 5/8" hole; hole with adapter supplied. 1/2 x 2 1/2" long phenolic forms. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Millihenries	EACH
G 093	6313	5-5	1.29
G 094	6314	2.0-18	1.21
G 095	6315	4.0-30	1.29
G 096	6316*	4.0-30	1.76
G 097	6318	2-3	1.09
G 098	6319	15.0-60	1.62
G 099	6322	1.5-10	1.21
G 100	6324	60-130 tapped	1.62

HIGH-VOLTAGE RF POWER SUPPLY TRANSFORMERS

Type 4525. RF power supply transformer for use in TV receivers. cathode ray oscilloscopes, etc. Provides voltage up to 5,000 v. DC. 1 1/4" dia. x 3 3/4" high. 4 oz.

G 101.....5.88

Type 4526. Provides voltage up to 10,000 v. (30,000 when used in a voltage rectifier circuit). Size, 2 1/4" diameter x 6" high. g. wt., 4 oz.

G 102.....8.82

VIDEO PEAKING AND FILAMENT CHOKE COILS

Type 6175 is filament choke. Reduces stray coupling, feed-back, etc. Others are video peaking coils for proper bandwidth and wave of video signals. Coils without shunt resistor wound on plastic forms; shunt types have resistors. Over-all sizes: Type 6175, 1 1/2" diameter; all other types, 3/8 x 3/8" diameter. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	μhys	Shunt	EACH
G 103	6172	73	None	
G 104	6173	120	None	56¢
G 105	6174	500	None	
G 106	6175	0	None	56¢
G 107	6152	20	None	
G 108	6176	36	None	
G 109	6177	93	None	
G 110	6178	120	22 K	56¢
G 111	6180	180	None	
G 112	6154	200	None	56¢
G 113	6181	250	None	
G 114	6155	300	None	

FM STEREO MULTIPLEX INDUCTORS

Current units designed specifically for use in FM stereo multiplex tuners and receivers. Units provide necessary separation of AM modulated (L-R) suppressed carrier signal, L-R audio signal, and 19-kc pilot sub-carrier. Generate 38-kc signal and 19-kc pilot sub-carrier. Combine L-R signal into a suitable matrix with L+K signal in such a manner that L signal appears at one output terminal and R signal at another. 3/4" square x 1 1/2" high. Shpg. wt., 3 oz.

Stock No.	Type	Description	E.A.
61 G 000	1351	Low Pass Filter	1.95
61 G 019	1351PC	Printed Circuit Type	1.91
61 G 021	1352	Series Band Pass Filter	1.80
62 G 620	1352PC	Printed Circuit Type	1.77
61 G 022	1353	Shunt Band Pass Filter	1.80
61 G 022	1353PC	Printed Circuit Type	1.77
61 G 023	1354	Locked Oscillator	1.91
62 G 623	1354PC	Printed Circuit Type	1.82
61 G 041	1355	Output Trans. 38 kc	2.21
62 G 623	1355PC	Printed Circuit Type	2.25

MIDGET RF COILS

Type A-320-A. Permeability-tuned broadcast band coils enclosed in aluminum shields. For receiver antenna stage use. Adjustable iron core permits accurate alignment. Frequency range, 540-1700 kc. 1 1/2" x 2 1/2" high. #6-32 spade bolt mounting. Shpg. wt., 4 oz.

G 087.....1.62

Type A-320-RF. Same as above, except for RF stage use. Shpg. wt., 4 oz.

G 088.....1.62

CAPACITY-OPERATED RELAY COIL

Type 695. For use in alarm systems, window displays, etc. Supplied with typical wiring diagram. 3/8 x 2 1/4" high. Wt., 4 oz.

G 107.....2.20

MINIATURE ADJUSTABLE RF COILS

Variable-inductance RF coils. Use with tuning capacitors of 250 to 450 mc. capacity. Type 70-OSC coil has tapped secondary. 70 series installed self-supported. 71-OSC has 2-tap primary. Both track 100 to 350 kc. Max. size: 3/8 x 1 1/2" high. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Use	KC Range	EACH
61 G 927	6908C	Osc.	540-1600	1.12
60 G 866	70-A	Ant.	540-1600	1.12
60 G 867	70-RF	RF	540-1600	1.12
60 G 868	70-OSC	Osc.	540-1600	1.12
60 G 869	71-OSC	Osc.	540-1600	1.62

ADJUSTABLE RF COILS

Compact, variable-inductance iron-core coils for replacement use. Shielded type. Use with 250-450 mmf variable capacitors. Oscillator coils have tapped secondary. 1 1/2 x 1 1/2 x 2 1/2". *IF range. Av. wt., 5 oz.

Stock No.	Mfr's Type	Use	KC Range	EACH
60 G 748	73-A	Ant.	500-1800	2.06
60 G 749	73-RF	RF	500-1800	
60 G 752	73-OSC	Osc.	100-550	

TRANSISTOR OSCILLATOR COILS

Type 2020. Use in one transistor osc. circuit. For 365 mmf capacitor, 455 KC IF, 3/8 x 1 1/2". Shpg. wt., 3 oz.

G 895.....1.62

Type 2022. Similar to above, except for use with variable capacitor 78-100 mmf max.

G 974.....1.62

AS ABOVE BUT SUBMINIATURE

Type 2021. Shielded. For use in converter circuits using one transistor for oscillator, mixer. Use with 100 mmf variable capacitor. Size, 3/8" high x 3/8" sq. Shpg. wt., 2 oz.

G 975.....2.06

MIDGET OSCILLATOR COILS

Cover 540-1600 with a 365 mmf capacitor. Series 5480 (Fig. M); single-section secondary with high-impedance primary; for use with pentagrid converters. Series 5481 (Fig. L); no primary, secondary tapped for cathode return; for use with 6BE6 and similar mixers; separate oscillator and mixer. 1x1 1/2", 4 oz.

Stock No.	Mfr's Type	IF	Padder	EACH
60 G 743	5480-C	455 kc.	.0004 mfd	
61 G 600	5481-C	455 kc.	.0004 mfd	1.12
61 G 980	5481-K	175 kc.	.001 mfd	

HIGH "Q" BROADCAST RF COILS

High-efficiency, unshielded, iron-core coils. Adjustable core. Range indicated obtained using 365 mmf variable capacitor. Mount in 1/2" hole. *Padder values shown for 455 kc IF. Size: 3/8 x 2". Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Use	KC Range	EACH
64 G 398	A-5495-A	Antenna	550-1700	
64 G 399	A-5495-RF	RF	550-1700	1.62
64 G 400	A-5495-C	Std. osc.	*400 mmf	
64 G 401	A-5495-C	Tap'd Osc.	*450 mmf	

ADJUSTABLE CERAMIC RF COILS

Adjustable coils for the most exacting requirements. Wound on silicone-impregnated ceramic forms. Tuned by powdered iron core. Fig. P is single-layer wound. Fig. R is twin-pl wound. Fig. S is single-pl wound.

Standard. High "Q" units with a wide range of inductances. Require 1/4" mtg. hole. Form size: 3/8 x 1 1/2". Av. shpg. wt., 3 oz.

Stk. No.	Type	Fig.	Microhenries	E.A.
60 G 982	4400	P	Form only	1.12
60 G 983	4403	P	0.9-1.6	1.59
60 G 984	4404	P	1.5-3.2	1.62
60 G 985	4405	P	3.1-6.3	1.65
60 G 986	4406	P	6.7-115	1.71
60 G 987	4407	R	14.8-31	1.79
60 G 988	4408	R	30-69	1.76
60 G 989	4409	R	68-130	1.85
60 G 990	4410	R	126-250	1.88
60 G 991	4411	R	245-475	1.91
60 G 992	4412	R	450-800	1.94
60 G 993	4413	S	1750-1400	1.97
60 G 994	4414	S	1300-2100	1.97

Miniature. For limited space. 1/4" mtg. hole. Form size: 1/4 x 1". Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Use	KC Range	EACH
60 G 870	4500	P	Form only	1.03
60 G 871	4502	P	1.0-2.8	1.47
60 G 872	4503	P	1.6-2.8	1.53
60 G 873	4504	P	2.8-5	1.56
60 G 874	4505	P	5-9	1.62
60 G 875	4506	P	9-16	1.68
60 G 876	4507	R	16-24	1.73
60 G 877	4508	R	24-35	1.76
60 G 878	4509	R	35-60	1.79
60 G 879	4511	S	60-120	1.82
60 G 880	4512	S	110-200	1.85
60 G 881	4513	S	200-300	1.88
60 G 882	4514	S	320-500	1.91

MORRIS "COILMASTER"

Accurate, easy-to-use hand-operated coil winding machine. It will produce self-supporting, universal and honeycomb coils; also solenoids, single-layer coils, etc.—A big time-saver—gives you work a professional appearance. Indicator counts coil turns. Easily adjustable for pi spacing and various diameter coil forms. Extremely versatile—accepts No. 22 to No. 40 wire; 3 cams and 4 gears permit winding virtually all types of coils. Less wire, coil forms, Base, 5x5". Wt., 4 lbs.

61 G 053.....6.95

RF Chokes, Trimmers, Padders, Variable Capacitors



FAMOUS-NAME RF CHOKES FOR EVERY PURPOSE

High-quality RF chokes available in a wide range of inductances for transmitters, receivers, test equipment, etc. Type R-175A is for transmitters with plate supply up to 3000 volts modulated or 4000 volts unmodulated; can be used on all bands from 80 through 6 meters. Type R-154U is for use in 20 to 80 meter transmitters. R-33 and R-50 series are pie-wound; R-33 types have 2 sections; R-50 types, 3 or 4 sections.

Types with suffix "U" have standoff insulator at one end; those with "ST," have threaded stud at each end. *Indicates wound on powdered iron form. The four highest frequency Ohmite chokes are on low-power factor plastic cores; other three are on statite tubes. †Iron-core type. ‡Indicates on standoff insulator for vertical mounting application. †Millihenries. **Microhenries. Av. shpg. wt., 2 oz.

Stock No.	Mfr.	Type	Fig.	±Mh	Ma	Ohms	EA.	Stock No.	Mfr.	Type	Fig.	±Mh	Ma	Ohms	EA.
61 G 115	National	R-33	G	11**	350	1.8	.36	61 G 523	Millen	34103	C	2.5	250	52.5	4.4
61 G 116	National	R-33	G	50**	225	3.5	.36	61 G 524	Millen	34106	I	1.0	300	13.5	4.4
61 G 117	National	R-33	G	100**	200	5.0	.36	61 G 525	Millen	34300-25	K	25**	250	3.4	4.4
61 G 118	National	R-33	G	750**	125	16	.36	61 G 526	Millen	34300-50	K	50**	250	5.2	4.4
61 G 119	National	R-50	A	0.5**	150	15	.42	61 G 527	Millen	34300-100	K	100**	250	7.4	4.4
61 G 160	National	R-50	A	1.0	135	23	.42	61 G 528	Millen	34300-250	K	250**	250	11	4.4
61 G 161	National	R-50	A	2.5	125	38	.42	61 G 529	Millen	34300-300	K	300**	250	10.1	4.4
61 G 162	National	R-60	A	10.0	115	36	.72	61 G 530	Millen	34300-500	G	500	250	22.2	4.4
61 G 168	National	R-60	A	2**	1500	.06	.29	61 G 531	Millen	3300-1000	G	1000**	250	2.7	4.4
61 G 169	National	R-60	A	4**	700	.15	.29	61 G 533	Millen	3300-100†	B	100**	50	4.0	4.4
61 G 301	National	R-100	C	2.5	115	44	.57	61 G 534	Millen	3300-250†	B	250**	50	6.2	4.4
61 G 367	National	R-100	C	10.0	60	130	1.12	61 G 535	Millen	3300-500†	B	500**	50	14.4	4.4
61 G 368	National	R-100U‡	D	2.5	115	44	.74	61 G 536	Millen	3300-1000†	B	1000**	50	23.7	4.4
61 G 495	National	R-100S‡	E	2.5	115	44	.99	61 G 537	Millen	3300-2500†	B	2500**	50	41.3	4.4
61 G 497	National	R-100S‡	E	10.0	60	130	1.49								
61 G 498	National	R-100ST	F	2.5	115	44	.66								
61 G 503	National	R-154U	L	1.0	600	5.0	2.01								
61 G 504	National	R-175A	M	145	800	5.0	3.56								
61 G 505	National	R-300	C	0.5	400	7.0	.57								
61 G 506	National	R-300	C	1.0	400	11	.57								
61 G 507	National	R-300	C	2.5	375	17	.74								
61 G 508	National	R-300	C	5.0	325	24	.90								
61 G 509	National	R-300U‡	D	0.5	400	7.0	.69								
61 G 511	National	R-300U‡	D	2.5	375	17	.92								
61 G 514	National	R-300S‡	E	1.0	400	11	1.00								

TRIMMERS AND PADDERS



Mica trimmer and padder capacitors in various sizes for a variety of applications. Treated to assure resistance to humidity and permanence of capacity settings. Low-loss ceramic base. Clear India

mica. The adjusting plates have been rigidly constructed to permit bending of soldering lugs without affecting capacity. All are lightweight, and easily mounted. Have convenient screwdriver adjustment. Ranges indicated in tables below, from 3 turns open trimmer to tight setting. Mounting centers are 1/8". Av. shpg. wt., 2 oz.

STANDARD SIZE, 3/4"x5/8"

Stock No.	Min. Mmf	Max. Mmf	EACH
13 L 518	1.5	15	20c
13 L 519	2.7	30	20c
13 L 520	5.0	60	20c
13 L 521	9.0	180	24c
13 L 522	25	280	27c
13 L 523	50	380	29c
13 L 524	80	480	32c
13 L 525	110	580	36c
13 L 526	140	680	39c
13 L 527	170	780	42c

MIDGET SIZE, 5/8"x3/4"

Stock No.	Min. Mmf	Max. Mmf	EACH
17 L 077	1	12	20c
17 L 078	2	20	20c
17 L 079	4	40	23c
17 L 080	7	100	24c
17 L 081	16	150	27c
17 L 082	24	200	29c
17 L 083	37	250	32c
17 L 084	55	300	36c
17 L 085	70	350	39c
17 L 086	90	400	42c

MINIATURE SIZE, 3/8"x5/16"

Stock No.	Min. Mmf	Max. Mmf	EACH
17 L 087	0.9	9	20c
17 L 088	1.5	20	23c
17 L 089	4	40	24c
17 L 090	7	60	27c

E. F. JOHNSON CAPACITORS



TYPE "M" MINIATURE VARIABLES

Bridge-type stator terminal provides low inductance, oversize bearing. Heavily anchored stator supports insure rigidity. 3/4"x3/4" panel mtg. space, 1/4" hole. Slotted shaft takes 1/8" knob. 1250 v. approx. peak break-down. Low-loss statite insulation. Nickel-plated. 2 oz.

N SINGLE

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	EA.
13 L 758	160-102	5.0	1.5	5	.90
13 L 759	160-104	8.7	1.8	9	.95
13 L 760	160-107	14.2	2.3	15	1.00
13 L 761	160-110	19.6	2.7	21	1.10
13 L 766	160-130	32	3	28	1.20

P BUTTERFLY

13 L 763	160-205	5.1	1.8	9	1.30
13 L 764	160-208	8.0	2.2	16	1.45
13 L 765	160-211	10.8	2.7	22	1.60

R DIFFERENTIAL

13 L 767	160-303	5.0	1.5	5	1.25
13 L 768	160-305	8.7	1.8	9	1.45
13 L 769	160-311	19.6	2.7	21	1.85

TYPE "L" VARIABLES

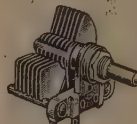
General purpose capacitors. Statite end frames with rotor bearing and stator support rods soldered directly to ceramic frames—providing a virtually vibration-proof unit. Plate spacing, .030", bearings threaded 3/32". Shaft dia., 1/4". 1 1/2"x1 1/2" panel space. Av. wt., 1 lb.

S SINGLE SECTION—ONE END FRAME

13 L 777	167-1	11	2.8	3	1.80
13 L 778	167-2	27	3.5	7	1.90
13 L 779	167-3	51	4.6	13	2.10
13 L 780	167-4	75	5.7	19	2.30

BUD CAPACITORS

"MC" MIDGETS



Sturdy, highly efficient midget variables. Sintered mica dielectric and double-bearing type "double." Fit 3/4" mounting hole. Cadmium-plated brass rotor and stator plates. Statite insulation. .024" slot gap. Shpg. wt., 7 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	EACH
13 L 530	1850*	15	3	3	1.80
13 L 531	1852*	33	4	5	1.80
13 L 532	1853*	50	5	7	2.40
13 L 533	1855*	100	7	14	2.70
13 L 534	1856*	140	7	19	2.70
13 L 535	1858*	190	9	27	3.00
13 L 536	1859*	235	10	33	3.45
13 L 537	1860*	300	12	43	3.75
13 L 538	1870	15	3	3	1.80
13 L 539	1872	33	4	5	1.80
13 L 540	1873	50	5	7	1.95
13 L 550	1875	100	7	14	2.10
13 L 551	1876	140	8	19	2.40

TINY MITE 2 & 3-GANG CAPACITOR



Compact, 3-gang capacitors designed for high frequency use. Ideal for converter preselectors and receivers covering AM, TV and FM bands. Soldered brass plates and ceramic end brackets 4 1/4" long. Rotor shafts extend 1/4" rear. *LC-1660 is 2-gang. Metal parts cadmium plated. Av. shpg. wt., 1/4 lb.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	EACH
13 L 555	LC-1660	15	3	5	3.30
13 L 552	LC-1845	11	3	5	5.25
13 L 553	LC-1846	17	3	5	5.25
13 L 554	LC-1847	25	6	9	6.25

MIDGET TRIMMER

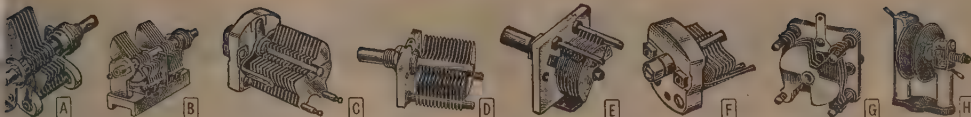


Type MT-833. For antenna coupling, interstage and receiver tracking applications. Has screw adjustment. Max. cap., 36 mmf; min. cap., 3 mmf. Wt., 4 oz.

13 L 510..... TWO FOR 30

Variable Capacitors

HAMMARLUND CAPACITORS



TYPE MC

Versatile single section tuning capacitors. Have siliconized stearite base, nickel-plated plates. Panel or chassis mtg. *Straight-capacity characteristic; others have mid-capacity characteristic. Nominal air gap: Single-ended M and S types, .0245"; wide-spaced SX types, .0715". Tested at 1000 v. and 1750 v. (cycle rms) respectively. Capacity increases in clockwise rotation. Continuous rotation. S type, 1 1/4" x 1 1/4"; M type, 1 1/4" x 2 1/2". Wt., 10 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 666	*MC-20-S	20	5.5	2.27
L 667	*MC-35-S	35	6.0	2.31
L 668	*MC-50-S	50	6.5	2.48
L 670	*MC-75-S	80	8.0	2.55
L 672	*MC-100-S	100	8.3	2.69
L 673	*MC-100-M	100	7.7	2.72
L 674	*MC-140-M	140	9.0	2.88
L 675	*MC-140-S	140	10.0	2.85
L 676	*MC-200-M	200	10.3	3.27
L 677	*MC-250-M	250	12.0	3.41
L 678	*MC-325-M	320	13.5	3.90

DOUBLE-SPACED MC's

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 679	*MC-20-SX	20	6.8	2.63
L 682	*MC-35-SX	32	8.5	2.79
L 684	*MC-50-SX	53	11.5	3.05
L 686	*MC-100-SX	100	16.5	3.87

TYPE MCD DUALS

Designed for single hole panel-mounting. Require only 3/16" in length behind panel. Stator base, nickel-plated brass plates. Tested at 1000 v. Exhibit same features as Type above; have terminals on both sides. Mid-line characteristic. Size opened, 3/8" x 1 1/2". Shpg. wt., 11 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 687	MCD-50-M	50	5.5	7.25
L 690	MCD-100-M	100	6.3	7.74
L 695	MCD-140-M	140	7.8	8.16

DIODE SUPERHET AND TRF TYPES

Diode Superhet. Miniature without sacrifice of performance makes these 2-gang variables perfect for portable receiver sets. Capacity: section, 14.5 to 368 mmf, 15 plates; osc. section, 11.6 to 136.6 mmf, 15 plates. Capacity increases with counter-clockwise rotation. For use with 455 kc IF. Trimmer. Size, 1 1/4" x 1 1/4" x 1 1/4". Shaft extends 1" beyond frame. Ball-bearing mounted shaft. Shpg. wt., 6 oz.

Miniature Superhet. RF section is 10.8 mmf to 332.4 mmf. Oscillator section is 8.5 mmf to 3.3 mmf. 1 1/4" x 1 1/4" x 1 1/4". 5 oz.

Diode TRF. Compact, 33-plate, 2-gang capacitor. Variable in 15 to 409 mmf. Capacity increases clockwise. Size: 1 1/4" deep, 1 1/4" wide, 1 1/4" high. 4" diameter shaft extends 3/4" beyond capacitor frame. Shpg. wt., 5 oz.

L 524.....80¢

MINIATURE 2-GANG VARIABLE CAPACITOR

Ideal variable tuning capacitor for miniature circuitry and use as exact duplicate replacement in current transistor receivers. Rotates through a full 180°—maximum capacity: antenna section, 148.1 mmf; oscillator section, 35.2 mmf. Trimmer capacity: variable to over 6 mmf. Trimmer adjustment on rear of case. Completely enclosed in clear polyethylene plastic case to protect plates. Size only 1 1/4" x 1 1/4" x 1 1/4". Shpg. wt., 4 oz.

L 592.....1.59

TYPE MAPC

Midget padding, trimming and general-purpose capacitors. Similar to APC, but smaller. Ideal for small space applications. Gap, .0135". Rotors and stators are nickel-plated brass. Nickel-plated beryllium copper wiper contact. Tapped (4-40 thread) brass studs in stearite base permit mounting without grounding rotor. Tested at 500 volts rms, 60 cps. Overall size: 3/4" wide, 1 1/4" high. All are adjustable with screwdriver or hex wrench. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 584	MAPC-15	15	2.3	1.01
L 585	MAPC-25	25	2.2	1.10
L 586	MAPC-35	35	2.9	1.10
L 587	MAPC-50	50	3.2	1.19
L 588	MAPC-75	75	3.9	1.28
L 589	MAPC-100	100	4.5	1.44

TYPE HFA

Sturdy capacitors, similar to HF, but larger plates and wider air gaps. For general-purpose and transmitting applications. Single-hole panel mounting. Also bracket for base mounting. End letter A in type no. denotes 02° air gap, B—.03"; 800 and 1200 test volts respectively. 1 1/4" x 1 1/2". Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 599	HFA-10B	10	2.3	1.62
L 643	HFA-15B	16	2.8	1.62
L 644	HFA-25B	25	3.0	1.74
L 645	HFA-50B	50	4.3	1.92
L 646	HFA-100B	100	7.5	3.05
L 647	HFA-100A	102	4.5	1.3
L 598	HFA-140A	145	6.0	2.39

TYPE MAC

(Not illustrated.) Extremely small variable capacitors. Excellent for use as VHF trimmers. Scissor-type, only 1/2" x 3/4" x 3/4". Screwdriver adjustment. Have threaded sleeve for convenient panel mounting. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 659	MAC-5	5.4	1.3	1.00
L 660	MAC-10	9.4	1.5	1.15
L 661	MAC-15	15.8	1.9	1.20
L 662	MAC-20	21.5	2.2	1.35

TYPE HF

Ideal for critical high-frequency circuits. Isolantite insulation. *Double-spaced units. HF: 1 1/2" x 1 1/4"; HFD: 1 1/2" x 1". Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 590	HF-15	17.5	2.8	1.14
L 591	HF-35	36	3.2	1.25
L 592	HF-50	52	3.7	1.31
L 593	HF-100	102	5.3	1.49
L 594	HF-140	142	6.3	1.74
L 595	*HF-15-X	15	3.6	1.29
L 596	*HF-30-X	30	5.2	1.43

HFD SPLIT-STATOR

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 706	HFD-25	25	2.9	4.37
L 648	HFD-50	52	3.6	4.55
L 649	HFD-100	102	5.0	4.98
L 650	HFD-140	142	6.0	5.15
L 651	*HFD-15-X	16	3.8	4.55
L 652	*HFD-30-X	28.5	5.0	4.65

TYPE APC

Isolantite base. Screwdriver or hex-wrench adjust. 1 1/2" x 1 1/4". Wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
L 654	APC-25	25	3.0	1.35
L 655	APC-50	50	3.9	1.52
L 656	APC-75	75	4.6	1.70
L 657	APC-100	100	5.5	1.85
L 658	APC-140	140	6.7	2.15

BFC BUTTERFLY TYPES

Straight-line capacity type; 90° minimum to maximum. Spacing .03". Tested at 1200 v. rms., 60 cycles between rotor and each stator. Tapped (6-32 thread) studs in stearite base permit mounting capacitor without grounding the rotor. Silver contact. 1 1/2" x 1 1/4". Wt. 1 lb.

Stock No.	Type	Max.	Min.	EACH
L 601	BFC-12	14.5	3.4	1.95
L 602	BFC-25	27.3	4.8	2.25
L 603	BFC-38	40.1	6.2	2.60

NEUTRALIZING CAPACITOR

Type N2-10. Rated, 3000 v. AC peak. Fine adjustment. Capacity, 2.3-10 mmf. 2 1/4" x 1 1/2" x 2 1/4". Shpg. wt., 1 lb.

L 653.....4.77

RECEIVER-TYPE CAPACITORS AND ACCESSORIES

TRF CAPACITORS

2-Gang. For use in superhets without RF stage or in 2-stage TRF receivers. Each section has 29 plates. Range, 15.5 to 467.8 mmf, each section. Counter-clockwise rotation increases capacity. With trimmers.

End plates slotted for easy tracking adjustments. Spring brass wipers. Tape series padder for oscillator use. 3/4" dia. shaft. Use extender to convert to 1/4" shaft. See coil and I. F. section for colla. Shaft diameter, .111".

2- and 3-Gang Capacitors. Compact TRF variable capacitors. Have trimmer on one of four wiper rotor plates are slotted for tracking adjustment. Tapped holes in frame provide secure mounting. Range: 12 to 367 mmf. Shaft diameter, 3/4". Size of 2-gang: 2 1/4" x 1 1/4" x 1 1/4". Size of 3-gang: 3 1/4" x 1 1/4" x 1 1/4". Shpg. wt., 6 oz.

L 521, 2-gang.....1.08

L 522, 3-gang.....1.66

SUPERHET CAPACITOR AND MATCHING COILS

Two-Section Superhet Variable. 19-plate oscillator section with 172.6 maximum—10.6 minimum mmf; has one 2-17 mmf trimmer, 27-plate RF section with 42.4 maximum—14.5 minimum mmf; has one 2-17 mmf trimmer. Provides 455 kc difference when used with oscillator coil listed below. Capacity increases with counter-clockwise rotation. Overall size, 1 1/2" x 1 1/4" x 2 1/4". Shaft, 1/4" diameter. 3/4" long. Shpg. wt., 10 oz.

L 529.....1.06

Oscillator Coil. For above. Shpg. wt., 4 oz.

L 504.....36¢

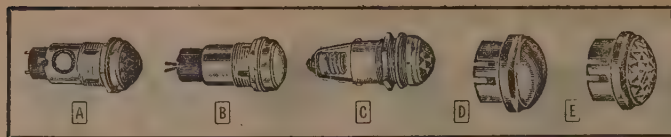
VARIABLE TUNING CAPACITOR WITH DIAL

- Broadcast Band Dial
- Small and Compact

Miniature single-gang capacitor for use in TRF broadcast band and experimental receivers—ideal for transistor circuits. Capacity variable from 10 to 365 mmf. Has 1 1/4" diameter, clear plastic tuning dial with milled edges. Calibrations in silver numerals, read from 530 to 1600 kc. 180° rotation. Size, only 1 1/4" square x 1 1/2" deep; shaft 1/4". Shpg. wt., 5 oz.

L 709.....69¢

Dialco Indicator Lights and Assemblies—Sockets



ONE-INCH PILOT LAMP ASSEMBLIES

A Series 313101. Enclosed. 115-volt, enclosed pilot lamp assembly. Black bakelite and brass. Has faceted jewel in chrome-plated holder. Candela screw socket. 1" mounting hole. *Not recommended for neon; all others for neon or incandescent. For Type S6 bulbs. U.L. Listed. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Jewel Color	EACH	
			1-9	10-Up
7 E 928	431	Red	1.22	1.10
7 E 929	432	Green*		
7 E 930	433	Amber		
7 E 931	437	Clear		
7 E 932	434	Blue*		
7 E 932	435	White		

B Series 312901, with Wire Leads. As above, except with 6" wire leads instead of solder lugs. Has friction-fit, chrome-plated cap. 1" mtg. hole. U.L. Listed. Less S6 candela lamp (see bulb listings, facing page). Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Jewel Color	EACH	
			1-9	10-Up
7 E 934	111	Red	1.52	1.37
7 E 935	112	Green		
7 E 936	113	Amber		
7 E 937	117	Clear		

C Series 75, Open. 115-volt open-type pilot lamp assembly with faceted jewel in chrome-plated brass holder. Candela screw socket. Solid brass construction. Friction-fit chrome-plated, 1" mounting hole. Less S6 lamp (see bulb listings). Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Jewel Color	EACH	
			1-9	10-Up
7 E 860	C-431	Red	11¢	64¢
7 E 861	C-432	Green		
7 E 862	C-433	Amber		

D Replacement Jewel Caps for Series 312901 Indicator Assemblies. 2 oz.

Stock No.	Type	Color	Stock No.	Type	Color
7 E 999	31-111	Red	8 E 001	31-113	Amber
8 E 000	31-112	Green	8 E 005	31-117	Clear
1-9,	EACH .54		10-Up,	EACH .52	

E Replacement Jewel Caps for Series 75, 910, and 313101 Assemblies. 2 oz.

Stock No.	Type	Color	Stock No.	Type	Color
8 E 006	31-431	Red	8 E 008	31-433	Amber
8 E 007	31-432	Green	8 E 012	31-437	Clear
1-9,	EACH .54		10-Up,	EACH .52	

MINIATURE AND CANDELABRA SCREW OPEN-TYPE ASSEMBLIES



F Series 510, 610 and 710. Open-type indicator light assemblies. Require 1/2" mounting hole. Solder lug terminals. Series 510 uses T-3/4 screw-base lamp; 610 takes G6 candela screw bulb; Series 710 uses T-3/4 bayonet type. Less lamp. Av. shpg. wt., 2 oz.

Series No.	Stock No.			EACH
	Red	Green	Amber	
510	7 E 938	7 E 941	7 E 944	21¢
610	7 E 939	7 E 942	7 E 945	
710	7 E 940	7 E 943	7 E 946	

H Series 910 Miniature Bayonet Type. Open assemblies with chrome-plated brass jewel holders and faceted jewels. 1/2" long; require 1" mounting hole. Take T-3/4 bayonet-base bulb. Less bulb. Shpg. wt., 3 oz.

Stock No.	Color	EACH	
		1-9	10-Up
7 E 947	Red	71¢	64¢
7 E 948	Green		
7 E 949	Amber		

Widely used open-type light assemblies for low voltage incandescent lamps. With jewel holder and easily soldered terminal lug connections. Available with miniature screw base, or bayonet-type base. Accommodate T-3/4, G6, and S6 lamps.

G Series 810. Screw and Bayonet Types. With faceted jewel. Require 1/2" mounting hole. With solder lug terminals. Use miniature bulbs. 810M takes T-3/4 miniature bulb with screw base; 810B uses T-3/4 miniature bayonet-base bulb. Less bulb. See bulb listings. Av. shpg. wt., 2 oz.

Series No.	Stock No.			EACH
	Red	Green	Amber	
810M	7 E 966	7 E 969	7 E 970	32¢
810B	7 E 967	7 E 968	7 E 971	

H Series 910 Screw Types. Open miniature and candela screw types. Chrome-plated brass jewel holders and faceted jewels. 1/2" long; require 1" mounting hole. Miniature screw types take T-3/4 bulb. Candela screw types use S6 bulb. Less bulb. Shpg. wt., 3 oz.

Color	Min. Screw	Cand. Screw	EACH	
			1-9	10-Up
Red	7 E 972	7 E 975	71¢	64¢
Green	7 E 973	7 E 976		
Amber	7 E 974	7 E 977		

PILOT LIGHT SOCKETS

Popular open-type pilot light sockets in a variety of mountings for most standard applications. All have terminal lugs of tinned brass to facilitate rapid soldering. Cadmium plating is used on brackets. Bayonet type sockets have coil spring construction.

All sockets listed below are supplied with insulating washers. *Indicates as illustrated, but has bayonet-type base. See bulb listing (on facing page) of screw lamps (for Series 500 socket), candela lamps (for Series 600 sockets), and bayonet lamps (for Series 700 sockets). Av. shpg. wt. per pkg. of 5 sockets, 6 oz.

MINIATURE SCREW

Stock No.	Mfr's Type	Fig.	EACH	
			1-49	50-Up
8 E 072	501	Y	12¢	10¢
8 E 076	507	M		
8 E 073	504	K		
8 E 074	505	N		
8 E 077	508	L		

CANDELABRA SCREW—115 VOLTS

Stock No.	Mfr's Type	Fig.	EACH	
			1-49	50-Up
8 E 080	601	J	12¢	10¢
8 E 081	604	K		
8 E 082	605	N		
8 E 085	608	L		

MINIATURE BAYONET

Stock No.	Mfr's Type	Fig.	EACH	
			1-49	50-Up
8 E 089	701	J*	12¢	10¢
8 E 090	704	K*		
8 E 091	705	N*		
8 E 094	708	L*		

NEON LIGHTS AND ASSEMBLIES



Series 952200 Panel Assemblies. Enclosed neon pilot light assemblies. Each have built-in 56,000 ohm resistor for NE-51H neon lamps in 105-125 volt, AC-DC circuit except those indicated by * which are supplied with an 18,000 ohm resistor for NE-51H "high brightness" neon lamp for use with 105-125 AC circuits. Space-sparing size, only 2 1/4" long. Requires an 1/2" mounting hole. Less lamp. (See bulb listings on following page.) Shpg. with mounting nut. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	Cap. Color
7 E 838	931	7 E 697	931H*	Red
7 E 839	933	7 E 698	933H*	Amber
7 E 840	935	7 E 699	935H*	White
7 E 841	937	7 E 732	937H*	Clear

1-9, ... EACH 68¢ 10-Up, ... EACH 61¢

Replacement Plastic Caps. For above. 20¢

Stock No.	Mfr's Type	Color	EACH	
			1-9	10-Up
8 E 028	95-931	Red	19¢	17¢
8 E 030	95-933	Amber		
8 E 033	95-935	White		
8 E 032	95-937	Clear		

PILOT BULB REMOVER



Designed to expedite installation or removal of miniature and candela-type lamps. Constructed of sturdy, high-grade rubber. Wt., 2 oz.

7 E 912

LOW-VOLTAGE

ENCLOSED SIGNAL ASSEMBLIES



Series 812210. Aviation type with smooth-faceted jewels in 1/2" white nickel holder. Take T-3/4 miniature bayonet base lamp replaceable from front. 2 1/4" long. 1/2" mtg. hole. For panels up to 3/4" thick. Less lamp. (See bulb listings on following page.) Shpg. wt., 3 oz.

Stock No.	Type	Color	EACH
7 E 780	-111	Red	68¢
7 E 781	-112	Green	
7 E 782	-113	Amber	
7 E 785	-135	White	

REPLACEMENT JEWEL CAPS ONLY—FOR ABOVE

Stock No.	Type	Color	1-9, EA.	10-24, EA.
8 E 040	81-111	Red	16¢	14¢
8 E 041	81-112	Green		
8 E 044	81-135	White		
8 E 042	81-113	Amber		

LEE CRAFT SNAPLITE

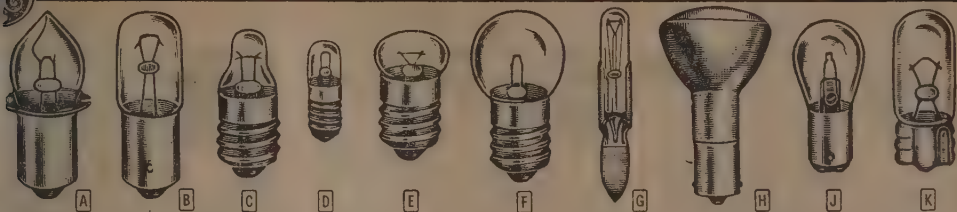
NEON PILOT LIGHT ASSEMBLIES



Series 32-2100 and 35-2100. Designed to snap-fit into 1/2" dia. holes in panels of any thickness. Housing of white nylon. Lens cap is made of butyrate for 110-200°F temperature range. Series 32-2100 is for 110 volts. (1/2-watt); has expected life of up to 15,000 hours. Series 35-2100 is for 220 volt. (1/2-watt); has expected life of up to 25,000 hours. Speed-nut can be used for extra-secure mounting where vibration is encountered. Both series are U.L. Listed. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Color	EACH
7 E 921	32-2111-6	Red	70¢
7 E 922	32-2113-6	Amber	
7 E 924	32-2115-6	White	
7 E 923	32-2117-6	Clear	
7 E 925	35-2111-6	Red	70¢
7 E 926	35-2113-6	Amber	
7 E 925	35-2115-6	White	
7 E 927	35-2117-6	Clear	

General Electric Miniature Lamps



ABBREVIATIONS USED TO DESCRIBE BASE AND BULB STYLES

CONFIGURATIONS: Bay.,—bayonet. Cand.,—candelabra. D.C.,—double contact. F.,—flanged. Mid.,—midget. Pref.,—prefocused. S.C.,—

single contact. BULB STYLES: B—lemon. G—globe. FE—flat end. R—reflector. S—straight end. T—tubular. TL—lens end, tubular.

GENERAL-PURPOSE MINIATURE LAMPS

selection of top-quality, precision-manufactured lamps commonly in numerous applications—panel indicator, telephone, flashlight pilot lamps, toys, etc. Many are exact-duplicate lamps for replacement. *Indicates switchboard slide-type base. Av. shpg. wt. for 1 lamp, 2 oz.; package of 10, 4 oz.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Base	Bulb Style	EACH	PKG. OF 10
300	PR-2	A	2.4	.50	S.C. F.	B-3 1/2		
301	PR-3	A	3.6	.50	S.C. F.	B-3 1/2		
302	PR-4	A	2.3	.27	S.C. F.	B-3 1/2	.20	1.20
303	PR-6	A	2.47	.30	S.C. F.	B-3 1/2		
304	PR-7	A	3.7	.30	S.C. F.	B-3 1/2		
305	PR-12	A	5.95	.50	S.C. F.	B-3 1/2	.20	1.20
306	PR-13	A	4.75	.50	D.C. Bay	B-3 1/2	.20	1.20
307	8	J	8.0	2.2	D.C. Bay	S-8	.40	2.50
307	12	J	6.3	1.5	Min. 2 pin	G-3 1/2	.25	1.50
308	13	F	3.7	.30	Screw	G-3 1/2	.17	1.00
309	14	F	2.5	.30	Screw	G-3 1/2	.17	1.00
310	24E	G	2.4	.035	Tel. Slide*	T-2	.65	4.00
311	24X	G	4.9	.30	Screw	G-4 1/2	.17	1.00
312	39	B	6.3	.36	Bayonet	T-3 1/4	.30	1.80
313	40	B	6.8	.15	Screw	T-3 1/4	.15	.90
314	41	B	6.8	.15	Screw	T-3 1/4	.15	.90
315	43	B	2.5	.50	Bayonet	T-3 1/4	.15	.90
316	44	B	6.8	.25	Bayonet	T-3 1/4	.15	.90
317	45	B	3.2	.35	Bayonet	T-3 1/4	.15	.90
318	47	B	6.8	.15	Screw	T-3 1/4	.15	.90
319	48C	G	4.8	.035	Tel. Slide*	T-2	.70	4.30
321	49	B	2.0	.06	Bayonet	T-3 1/4	.15	.90
322	50	B	6.8	.15	Screw	G-3 1/2	.15	.90
323	51	B	6.8	.15	Screw	G-3 1/2	.15	.90
324	52	B	14.4	.10	Bayonet	G-3 1/2	.15	.90
325	53	F	14.4	.12	Bayonet	G-3 1/2	.15	.90
326	55	F	6.8	.2	Bayonet	G-4 1/2	.15	.90
327	57	F	12	.2	Bayonet	G-4 1/2	.15	.90
328	63	F	6.8	.3	S.C. Bay.	G-6	.20	1.20
329	67	F	12	.4	S.C. Bay.	G-6	.20	1.20
330	67K	F	13.5	.4	Cand.	G-6	.40	2.50
332	71K	F	22	.18	Cand.	G-6	.30	1.80
333	81	F	6.8	.6	S.C. Bay.	G-6	.25	1.50
334	82	F	6.8	.6	D.C. Bay.	G-6	.25	1.50
335	112	F	1.2	.22	Screw	TL-3	.17	1.00
336	136	F	1.3	.60	Screw	G-4 1/2	.17	1.00
338	158	B	12	.24	Wedge	T-3 1/4	.20	1.20
339	159	B	6.3	.15	Wedge	T-3 1/4	.20	1.20
340	222	C	2.2	.25	Screw	TL-3	.17	1.00
341	223	C	2.2	.25	Screw	FE-3 1/4	.17	1.00
342	224	C	2.15	.22	Special	TQ-2 1/2	.17	1.00
343	233	F	2.2	.27	Screw	G-3 1/2	.17	1.00
344	248	F	2.2	.80	Screw	G-5 1/2	.25	1.50
345	259	B	6.3	.25	Wedge	T-3 1/4	.20	1.20
346	313	B	28	.17	Bayonet	T-3 1/4	.35	2.10
347	327	D	28	.04	S.C. Mid.	T-1 1/4	.30	1.50
348	330	D	14	.08	S.C. Mid.	T-1 1/4	.70	4.30
349	344	D	10	.014	S.C. Mid.	T-1 1/4	1.00	6.10
350	345	D	6	.04	S.C. Mid.	T-1 1/4	1.50	9.20
351	363	F	14	.20	Bayonet	G-4 1/2	1.40	8.60
352	377	F	6.5	.50	Screw	G-4 1/2	.20	1.20
353	406	F	2.6	.30	Screw	G-4 1/2	.25	1.50
354	407	F	4.9	.30	Screw	G-4 1/2	.20	1.20
355	425	F	5	.50	Screw	G-4 1/2	.17	1.00
356	428	F	12.5	.25	Screw	G-4 1/2	.17	1.00
357	431R	F	14	.25	Bayonet	G-4 1/2	.25	1.50
358	432	F	18	.15	Screw	G-4 1/2	.25	1.50
359	433	F	18	.25	Bayonet	G-4 1/2	.25	1.50
360	502	D	5.1	.15	Screw	G-4 1/2	.17	1.00
361	509K	F	24	.18	Cand.	G-6	.25	1.50
362	605	F	6.1	.50	Screw	G-4 1/2	.17	1.00
363	1383	H	12	.20w	S.C. Bay.	R-12	2.70	16.50
364	1424	F	12	.15	Screw	G-3 1/2	.20	1.20
365	1446	F	12	.20	Screw	G-3 1/2	.25	1.50
366	1447	F	18.0	.15	Screw	G-3 1/2	.20	1.20
367	1449	F	14	.20	Screw	G-3 1/2	.15	.90

GENERAL-PURPOSE MINIATURE LAMPS (Cont'd)

Stock No.	Mfr's Type	Fig.	Volts	Amps	Base	Bulb Style	EACH	PKG. OF 10
7E 353	1458	F	20	.25	Bayonet	G-5	.20	1.20
7E 354	1474	B	14	.17	Screw	T-3	.35	2.10
7E 355	1477	B	24	.17	Screw	T-3	.35	2.10
7E 356	1487	B	12-16	.20	Screw	T-5 1/4	.20	1.20
7E 357	1488	B	14	.15	Bayonet	T-3 1/4	.25	1.50
7E 358	1493	F	6.5	2.75	D.C. Bay.	S-8	1.05	6.40
7E 359	1630	F	6.5	2.75	D.C. Pref.	S-8	1.40	8.50
7E 360	1651	Y	5	.60	S.C. Bay.	S-8	.60	3.70
7E 361	1763	J	6.1	4.1	S.C. Pref.	S-11	1.15	7.00
7E 362	1768	D	6	.20	Mid. Screw	T-1 1/4	.90	5.50
7E 363	1769	D	2.5	.20	S.C. Mid.	T-1 1/4	.80	4.90
7E 364	1813	B	14.4	.20	Bayonet	T-3 1/4	.25	1.50
7E 365	1815	B	12-16	.20	Bayonet	T-3 1/4	.20	1.20
7E 366	1816	B	13	.33	Bayonet	T-3 1/4	.30	1.80
7E 367	1819	B	28	.04	Bayonet	T-3 1/4	.45	2.70
7E 368	1820	B	28	.10	Bayonet	T-3 1/4	.40	2.40
7E 369	1822	B	35	.10	Bayonet	T-3 1/4	.60	3.70
7E 370	1823	B	37.5	.05	Bayonet	T-3 1/4	.60	3.70
7E 371	1829	B	28	.07	Bayonet	T-3 1/4	.35	2.10
7E 372	1835	B	55	.05	Bayonet	T-3 1/4	.65	4.00
7E 373	1847	B	6.3	.15	Bayonet	T-3 1/4	.20	1.20
7E 374	1869	D	10	.014	S.C. Mid.	T-1 1/4	1.10	6.70

NEW 100,000-HOUR SUBMINIATURE LAMPS

Tiny incandescent indicator lamps that last about 12 years! Wire-terminal types have solder-dipped leads. Size, 1/4x1/4" diameter. Others have brass bases. Bulb style, T-1, 3/4x3/4" diameter. For uses where space is critical, and service difficult. Tolerance, ±10%, except ±20%. Av. wt. for 1 lamp, 2 oz.; package of 10, 4 oz.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Base	EACH	PKG. OF 10
7E 393	680	M	5	.060	Wire Term.	3.20	19.60
7E 394	682	L	5	.060	S.C. Bay.	4.00	24.40
7E 395	683	L	5	.060	Wire Term.	3.20	19.60
7E 396	685	L	5	.060	S.C. Bay.	3.50	21.00
7E 397	715	M	5	.115	Wire Term.	3.20	19.60
7E 398	718	L	5	.115	S.C. Bay.	4.00	24.40
7E 399	2128	M	5	*.0125	Wire Term.	4.50	27.50

NEW 50,000-HOUR LAMPS

Amazing incandescent indicators with a design-life of over 5 years—average life-time of 50,000 hours. Reliable performers come in three industry-standard sizes and physical configurations. Actual life is determined by environmental conditions—vibration, shock, temperature, voltage fluctuations. Av. shpg. wt. for 1 lamp, 2 oz.; package of 10, 4 oz.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Base	Bulb Style	EACH	PKG. OF 10
7E 400	380	P	6.3	.04	S.C. Mid., F.	T-1 1/4	1.70	1.040
7E 401	381	P	6.3	.20	S.C. Mid., F.	T-1 1/4	1.05	6.40
7E 402	302	N	14	.08	S.C. Mid., F.	T-1 1/4	1.20	7.30
7E 403	755	N	15	.08	Min. Bay.	T-3 1/4	3.50	21.00
7E 404	756	N	14	.08	Min. Bay.	T-3 1/4	.30	1.80
7E 405	757	N	28	.08	Min. Bay.	T-3 1/4	.40	2.40
7E 406	2180	R	6.3	.04	Wire Term.	T-1 1/4	.90	5.50
7E 407	2181	R	6.3	.20	Wire Term.	T-1 1/4	.50	3.10
7E 408	2182	R	14	.08	Wire Term.	T-1 1/4	.60	3.70

SAVE-BUY IN PACKAGES OF 10—

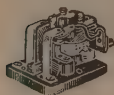
Price per bulb is substantially reduced when you order by the package. Pocket the savings! Have extra lamps on hand when you need them—without reordering.

Potter & Brumfield Relays and Accessories

On these pages, you'll find the most popular contact arrangements, ratings, terminations, enclosures, and coil voltages listed.

Contact us for prices and other product information on any types not listed—you'll receive a prompt reply.

PR HEAVY-DUTY POWER RELAYS



For industrial applications. Heavy screw terminals. All U.L. Listed; and AC types also CSA approved, except PR11A15, neither. All have 25-amp silver contacts except PR11A15 with 20 amp contacts. Auxiliary SPDT 8-amp contacts. Sizes: all are 2 1/2" wide; PR3, PR5, 2 1/2x2 1/2"; PR7, 2 1/2x2 1/2"; PR11, 2 1/2x3 1/2". Av. shpg. wt., 12 oz.

Stock No.	Type	Volts	Action	EACH
75 P 846	PR3AV	6 AC	SPST	4.15
75 P 751	PR3AV	12 AC	SPST	4.15
75 P 961	PR3AV	24 AC	SPST	4.15
75 P 601	PR3AV	115 AC	SPST	4.15
75 P 652	PR3AV	230 AC	SPST	4.50
75 P 509	PR3DV	12 DC	SPST	4.15
75 P 101	PR3DV	24 DC	SPST	4.15
75 P 968	PR3DV	110 DC	SPST	4.75
75 P 847	PR5AV	6 AC	SPDT	4.35
75 P 878	PR5AV	12 AC	SPDT	4.35
75 P 962	PR5AV	24 AC	SPDT	4.35
75 P 602	PR5AV	115 AC	SPDT	4.35
75 P 966	PR5AV	230 AC	SPDT	4.75
75 P 750	PR5DV	6 DC	SPDT	4.35
75 P 510	PR5DV	12 DC	SPDT	4.35
75 P 964	PR5DV	24 DC	SPDT	4.35
75 P 969	PR5DV	110 DC	SPDT	4.75
75 P 848	PR7AV	6 AC	DPST	4.90
75 P 879	PR7AV	12 AC	DPST	4.90
75 P 963	PR7AV	24 AC	DPST	4.90
75 P 603	PR7AV	115 AC	DPST	4.90
75 P 967	PR7AV	230 AC	DPST	5.30
75 P 102	PR7DV	6 DC	DPST	4.90
75 P 511	PR7DV	12 DC	DPST	4.90
75 P 513	PR7DV	24 DC	DPST	4.90
75 P 970	PR7DV	110 DC	DPST	5.50
75 P 849	PR11AV	6 AC	DPDT	6.45
75 P 752	PR11AV	12 AC	DPDT	6.45
75 P 964	PR11AV	24 AC	DPDT	6.45
75 P 605	PR11AV	115 AC	DPDT	6.45
75 P 965	PR11AV	230 AC	DPDT	6.95
75 P 103	PR11A15	6 AC	DPDT*	8.15
75 P 109	PR11A15	12 AC	DPDT*	8.15
75 P 753	PR11A15	24 AC	DPDT*	8.15
75 P 606	PR11A15	115 AC	DPDT*	8.15
75 P 976	PR11A15	230 AC	DPDT*	8.55
75 P 110	PR11A15	440 AC	DPDT*	9.40
75 P 508	PR11DV	6 DC	DPDT	6.45
75 P 512	PR11DV	12 DC	DPDT	6.45
75 P 971	PR11DV	24 DC	DPDT	6.45
75 P 971	PR11DV	110 DC	DPDT	7.05

MR MEDIUM-DUTY POWER RELAYS



For general applications. Silver contacts rated 8 amps except MR3 types rated 10 amps. AC coils for 60 cycles. ST actions normally open. Size: MR3 and MR5, 1 1/4x1 1/2x2 1/4"; MR11, 2x2 1/2x2 1/2"; MR14, 2x2 1/2x2 1/2". Av. wt., 4 oz.

Stock No.	Type	Volts	Action	EACH
75 P 975	MR3A	6 AC	SPST	3.85
75 P 978	MR3A	24 AC	SPST	3.85
75 P 665	MR3A	115 AC	SPST	3.85
75 P 983	MR3DV	6 DC	SPST	3.50
75 P 987	MR3DV	12 DC	SPST	3.50
75 P 988	MR3DV	24 DC	SPST	3.50
75 P 610	MR5A	6 AC	SPST	3.45
75 P 757	MR5A	12 AC	SPST	3.45
75 P 979	MR5A	24 AC	SPST	3.45
75 P 614	MR5A	115 AC	SPST	3.45
75 P 657	MR5A	230 AC	SPST	3.85
75 P 618	MR5DV	6 DC	SPST	3.20
75 P 980	MR5DV	12 DC	SPST	3.20
75 P 989	MR5DV	24 DC	SPST	3.20
75 P 660	MR5DV	110 DC	SPST	3.70
75 P 612	MR11A	6 AC	DPDT	4.85
75 P 758	MR11A	12 AC	DPDT	4.85
75 P 981	MR11A	24 AC	DPDT	4.85
75 P 616	MR11A	115 AC	DPDT	4.85
75 P 659	MR11A	230 AC	DPDT	5.25
75 P 985	MR11DV	6 DC	DPDT	4.60
75 P 990	MR11DV	12 DC	DPDT	4.60
75 P 991	MR11DV	24 DC	DPDT	4.60
75 P 611	MR11DV	110 DC	DPDT	5.10
75 P 976	MR14A	6 AC	3PDT	5.80
75 P 979	MR14A	12 AC	3PDT	5.80
75 P 982	MR14A	24 AC	3PDT	5.80
75 P 974	MR14A	115 AC	3PDT	5.80
75 P 972	MR14A	230 AC	3PDT	6.20
75 P 986	MR14DV	6 DC	3PDT	5.45
75 P 984	MR14DV	12 DC	3PDT	5.45
75 P 992	MR14DV	24 DC	3PDT	5.45
75 P 762	MR14DV	110 DC	3PDT	5.95

KRP ENCLOSED RELAYS



Completely enclosed compact relays in hi-impact, transparent, plastic cases. Fully dust-proof and weather-proof for long, trouble-free operation. Types KRPS and KRPI14 plug into standard octal sockets; Type KRPI14 plugs into 11-pin socket. Gold-plated silver contacts rated 5 amps at 115 V AC, 60-cycle resistive. 1 1/2x1 1/2x2 1/2". Av. wt., 5 oz.

Stock No.	Type	Volts	Action	EACH
75 P 214	KRP5A	6 AC	SPDT	5.45
75 P 215	KRP5A	24 AC	SPDT	5.45
75 P 213	KRP5A	115 AC	SPDT	5.45
75 P 217	KRP5DV	6 DC	SPDT	5.40
75 P 244	KRP5DV	12 DC	SPDT	5.40
75 P 245	KRP5DV	24 DC	SPDT	5.40
75 P 240	KRP5DV	110 DC	SPDT	6.00
75 P 920	KRP11A	6 AC	DPDT	6.05
75 P 924	KRP11A	12 AC	DPDT	6.05
75 P 926	KRP11A	24 AC	DPDT	6.05
75 P 927	KRP11A	115 AC	DPDT	6.05
75 P 927	KRP11A	230 AC	DPDT	6.45
75 P 922	KRP11DV	6 DC	DPDT	6.00
75 P 246	KRP11DV	12 DC	DPDT	6.00
75 P 247	KRP11DV	24 DC	DPDT	6.00
75 P 952	KRP11DV	110 DC	DPDT	6.60
75 P 951	KRP14A	6 AC	3PDT	7.50
75 P 925	KRP14A	12 AC	3PDT	7.50
75 P 928	KRP14A	24 AC	3PDT	7.50
75 P 933	KRP14A	115 AC	3PDT	7.50
75 P 954	KRP14A	230 AC	3PDT	7.90
75 P 957	KRP14DV	6 DC	3PDT	7.45
75 P 995	KRP14DV	12 DC	3PDT	7.45
75 P 996	KRP14DV	24 DC	3PDT	7.45
75 P 998	KRP14DV	110 DC	3PDT	8.05

KCP ENCLOSED RELAYS



Plate circuit relays. In high-impact, weather-proof plastic cases. Fit standard octal or 11-pin socket (at right, below). 2" wide, silver contacts. 1 1/2x2 1/2x2 1/2". Av. wt., 5 oz.

Stock No.	Type	Ohms	Ma	Action	EACH
75 P 287	KCP5	2500	7.2	SPDT	5.90
75 P 288	KCP5	5000	5.0	SPDT	6.00
75 P 289	KCP5	10,000	3.6	SPDT	6.40
75 P 290	KCP11	2500	10.0	DPDT	6.30
75 P 291	KCP11	5000	7.2	DPDT	6.40
75 P 292	KCP11	10,000	5.0	DPDT	6.80
75 P 997	KCP14	2500	12.3	3PDT	7.75
75 P 998	KCP14	5000	8.7	3PDT	7.85
75 P 999	KCP14	10,000	6.1	3PDT	8.25

TYPE "M" RELAY CASES



Model 35D070. Clear, cellulose acetate case for mounting rectifiers, capacitors, resistors or a combination of these components. Equipped with 8-pin, octal-type plug. Same case as used with KRP and KCP relays above. 4 mtg. screws. Use with 9-KR-15 hold-down spring (below) for special applications. 1 1/2x2 1/2x2 1/2". Shpg. wt., 2 oz. **55¢**

75 P 559. Type 35D072. 70¢ but with 11-pin plug.
Type 9-KR-15 Hold-Down Spring. For horizontal, inverted, and vibration-resistant mounting of KCP and KRP relays. Stainless steel; two 3/4" mtg. holes on 1 1/4" ctrs. 60 per box. Shpg. wt., 3 oz.
75 P 554. PER BOX 5.00

KA GENERAL-PURPOSE RELAYS



Compact, general purpose relays for transmitters, power supply control, etc. Moisture resistant. Heavy-duty contacts rated at 5 amps AC coils for 60 cycles. All are U.L. Listed. 6-12 mounting stud. 1 1/2x1 1/2x2 1/2". Shpg. wt., 6 oz.

Stock No.	Type	Volts	Action	EACH
75 P 158	KA5AV	6 AC	SPDT	3.20
75 P 780	KA5AV	12 AC	SPDT	3.20
75 P 161	KA5AV	24 AC	SPDT	3.40
75 P 164	KA5AV	115 AC	SPDT	3.30
75 P 153	KA5AV	230 AC	SPDT	3.60
75 P 167	KA5DV	6 DC	SPDT	3.05
75 P 170	KA5DV	12 DC	SPDT	3.05
75 P 173	KA5DV	24 DC	SPDT	3.05
75 P 166	KA5DV	110 DC	SPDT	3.35
75 P 159	KA11AV	6 AC	DPDT	3.65
75 P 781	KA11AV	12 AC	DPDT	3.85
75 P 162	KA11AV	24 AC	DPDT	3.85
75 P 165	KA11AV	115 AC	DPDT	3.85
75 P 783	KA11AV	230 AC	DPDT	4.25
75 P 168	KA11DV	6 DC	DPDT	3.35
75 P 171	KA11DV	12 DC	DPDT	3.35
75 P 174	KA11DV	24 DC	DPDT	3.40
75 P 522	KA11DV	110 DC	DPDT	4.00
75 P 160	KA14AV	6 AC	3PDT	4.25
75 P 779	KA14AV	12 AC	3PDT	4.25
75 P 163	KA14AV	24 AC	3PDT	4.25
75 P 166	KA14AV	115 AC	3PDT	4.25
75 P 152	KA14AV	230 AC	3PDT	4.40
75 P 169	KA14DV	6 DC	3PDT	3.85
75 P 172	KA14DV	12 DC	3PDT	3.85
75 P 185	KA14DV	24 DC	3PDT	3.85
75 P 523	KA14DV	110 DC	3PDT	4.45

PC IMPULSE RELAYS



Compact, pulse-operated relays for on-off or reversing applications. Pulses may be as short as 60 milliseconds at 5 cps. Gold-plated silver contacts, rated 7 1/2 amps at 115 volts AC, resistive load. Size: 2 1/4x2 1/4x2 1/4". Shpg. wt., 5 oz.

Stock No.	Type	Volts	Action	EACH
75 P 504	PC11A	6 AC	DPDT	5.50
75 P 728	PC11A	12 AC	DPDT	5.50
75 P 502	PC11A	24 AC	DPDT	5.50
75 P 500	PC11A	115 AC	DPDT	5.50
75 P 726	PC11DV	6 DC	DPDT	5.35
75 P 729	PC11DV	12 DC	DPDT	5.35
75 P 506	PC11DV	24 DC	DPDT	5.35
75 P 503	PC17A	24 AC	4PDT	7.60
75 P 501	PC17A	115 AC	4PDT	7.60
75 P 507	PC17DV	24 DC	4PDT	7.45

RELAY ACCESSORIES



PR MR
For PR and MR Relays. Steel base with aluminum cover. 4-knockouts for 1/2" conduit. Mtg.: 3-1/4" holes on 1 1/2x2 1/4" centers. Size: 3 1/2x3 1/2x3 1/2". Shpg. wt., 1 lb.
76 P 777. 3.00
For MR and MS Relays. Steel base with aluminum cover. 4-knockouts for 1/2" conduit. Mounts on pre-drilled holes. Mtg.: 1/2" holes on 1 1/2x2 1/4" centers. Size: 3 1/2x3 1/2x3 1/2". Shpg. wt., 1 lb.
76 P 778. 1.90
Amphenol 77MP8 Socket. For KRP and KCP relays. For all relays except KRPI14 and KRPI14. Requires 1 1/2" hole. Mtg. centers, 1 1/2". Wt., 5 oz.
40 H 028. 1.60
Amphenol 77MPI1 Socket. For KRPI14 and KCP14 types. Molded bakelite. Mounts in 1 1/2" hole. Mtg. has 1 1/2" mtg. centers. Wt., 2 oz.
40 H 033. 2.10

DIACROM RELAY CLEANING SPATULAS



Diamond abrasive spatulas specifically designed for cleaning relay contacts. Require only gentle pressure to remove complete job while leaving contact gap unchanged. Non-clogging. Nylon shaft of high dielectric strength permits use when relay is under power. In three color-coded grades by application, or in plastic-cased kits of 3 spatulas. 6" long. Wt., 2 oz. each; 10 oz. kit.

SINGLE SPATULAS			
Stock No.	Mfr's Type	For Cleaning:	EACH
77 P 328	200	Industrial Relays	4.95
77 P 329	300	Intermediate Relays	
77 P 330	400	Sensitive Relays	
SPATULA KITS			
Stock No.	Mfr's Type	Consists of Above Types:	PER KIT
77 P 285	234	1 ea.—200, 300, 400.	
77 P 286	222	3 each.—200, 300, 400.	
77 P 288	333	3 each.—300, 400.	14.85
77 P 289	444	3 each.—400.	

Selected Potter & Brumfield and Sigma Relays

AB APPLIANCE RELAYS

For appliance applications requiring long-life quiet operation. Silver contacts rated 10 amps; size 1 1/2 x 1 1/2. Snap-on and terminals provided. 8-32 mtg. holes on case. U.L. Listed. 5 oz.



K No.	Type	Volts	EACH
399	AB11AY*	6 AC	5.30
418	AB11AY*	12 AC	5.30
448	AB11AY*	115 AC	5.30
448	AB11AY*	230 AC	5.70
768	AB11D	12 DC	5.20
769	AB11D	24 DC	5.20
449	AB11D	110 DC	5.70

ADDC MEDIUM-POWER RELAYS

Small motors, industrial rolls, etc. Have DPDT contacts rated at 10 a. Snap-on and screw terminals supplied. Have cover. Size above listed. 8-32 mtg. holes on case. U.L. Listed. 7 oz.



Single No. 8-32 mtg. holes on case. U.L. Listed. 7 oz.

K No.	Type	Volts	EACH
431	AB11AY*	6 AC	6.40
432	AB11AY*	12 AC	6.40
433	AB11AY*	115 AC	6.40
464	AB11AY*	230 AC	6.80
770	AB11D	6 DC	6.30
771	AB11D	12 DC	6.30
772	AB11D	24 DC	6.30
465	AB11D	110 DC	6.80

AB MINIATURE DC POWER RELAYS

Long telephone type relays. Designed for very high current applications. Contact arms are of brass with large silver contacts. Rated 60 amps. SPST, double throw, normally open. Size: 1 1/2 x 1 1/2. Mounting: Four No. 8-32 mtg. holes on case. U.L. Listed. 5 oz.



K No.	Type	Volts	EACH
059	MB3D	6 DC	5.40
065	MB3D	12 DC	5.50
066	MB3D	24 DC	5.50
067	MB3D	110 DC	5.90

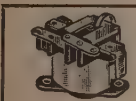
MS MOTOR-STARTING RELAYS

Capacitor-start, induction-motor. Adjustable pull-in. Types normally closed. MS2 type rated at 1/2 HP. MS4 at 1/4 HP. Have double-break contacts. U.L. Listed. 1 1/2 x 2 1/4. Av. wt., 5 oz.



K No.	Type	Volts	EACH
763	MS2AY	115 AC	3.55
764	MS2AY	230 AC	3.95
764	MS4AY	115 AC	4.15
766	MS4AY	230 AC	4.55

Ruggedly Built
For Wide Range
of Applications



Type 11F. Small, low-cost DC relay. 50 and 200 mw. sensitivity. SPDT contacts rated 1 amp. 1 1/2 x 1 1/2 x 1 1/2 high. Shpg. wt., 3 oz.

K No.	Type	Ohms	DC	EA.
P 681	11F-250-G/SIL	250	1.0	1.75
P 683	11F-550-G/SIL	550	2.0	1.75
P 688	11F-1000-G/SIL	1000	7.0	1.75
P 689	11F-2300-G/SIL	2300	4.0	1.95
P 674	11F-6000-G/SIL	6000	2.0	1.75
P 675	11F-9000-G/SIL	9000	2.4	2.15

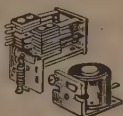
Type 11F2. Small AC relays for positive on-off operation. SPDT contacts rated 1/2 a. 28 VDC/120 V. AC. Size: 1 1/2 x 1 1/2. Shpg. wt., 4 oz.

K No.	Type	Coil Volts	On/Off Voltage	EACH
P 547	11F2-25-AC/SIL	6	4.8	2.50
P 548	11F2-100-AC/SIL	12	9.0	2.50
P 549	11F2-550-AC/SIL	24	18	2.50
P 568	11F2-9000-AC/SIL	120	75	2.95

POTTER & BRUMFIELD RELAYS

GP "PIC AND BUILD" SERIES

Units available can be combined to produce twenty different relays, each easily converted to an alternative sensitivity or switching arrangement in minutes. The 110 v. DC coil is approximately 5000 ohms. The 2500, 5000 and 10,000 ohm coils may be used in plate circuit applications and can be adjusted to operate on 13, 8, and 6.5 ma respectively. 1/2" diameter switch contacts are rated at 5 amps. Has tapped core to permit mounting with size 8-32 screw. Size: 1 1/2 x 1 1/2 x 1 1/2. Av. wt., 4 oz.



Stock No.	Mfr's Type	Description	EA.
76 P 333	GPA	6 v. AC Coil	1.65
76 P 339	GPA	12 v. AC Coil	1.65
76 P 334	GPA	24 v. AC Coil	1.65
76 P 335	GPA	115 v. AC Coil	1.65
76 P 336	GPA	230 v. AC Coil	2.10
76 P 337	GPD	6 v. DC Coil	2.10
76 P 338	GPD	12 v. DC Coil	2.10
76 P 339	GPD	24 v. DC Coil	2.10
76 P 340	GPD	110 v. DC Coil	3.15
76 P 341	GPD	2500-ohm Coil	1.50
76 P 342	GPD	5000-ohm Coil	2.10
76 P 343	GP11	DPDT Switch	2.70
76 P 344	GP17	4PDT Switch	2.95

LB-5 PLATE CIRCUIT RELAYS

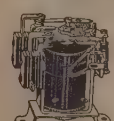
Small, fast-acting circuit relays. For any circuit supplying only a few milliwatts of DC. Breakdown: 500 volts rms minimum. Silver contacts are rated 5 amps at 115 V. AC, 60-cycle resistive. All units have SPDT action. Adjusted by bending tail-spring hook. Size: 2 1/2 x 1 1/2 x 1 1/2. For DC operation only. Shpg., wt., 5 oz.



Stock No.	Ohms	Ma	EACH
75 P 625	2500	9	2.45
75 P 626	5000	6.3	2.65
75 P 774	10,000	4.5	2.85

LM PLATE-CIRCUIT RELAYS

For photoelectric and similar circuits. Medium-cost, high quality, current-actuated relays. Pull-in adjustable by tail spring adjusting screw. DC coils only. Silver contacts rated 5 amps, 115 v. 60 cycles, non-inductive load. Have 100 milliwatt sensitivity for single pole, 200 mw for double-pole. Size: 2 1/2 x 1 1/2 x 1 1/2. Av. shpg. wt., 9 oz.



Stock No.	Type	Ohms	Ma	EACH
75 P 673	LMS*	2500	6.3	3.90
75 P 674	LMS*	5000	4.5	4.10
75 P 675	LMS*	10,000	3.2	4.40
75 P 682	LM11†	2500	9.0	5.55
75 P 683	LM11†	5000	6.3	5.75
75 P 285	LM11†	10,000	4.5	6.30

*SPDT; †DPDT. Size: LMS, 2 1/2 x 1 1/2 x 1 1/2. LM11, 2 1/2 x 2 x 1 1/2. Av. shpg. wt., 9 oz.

26F-8000-DC/PAL Relay. Rugged and highly sensitive unit for more efficient radio control model work. Has palladium SPDT contacts, rated 0.5 amp at 28 volts DC or 120 volts AC, 100,000 operations, 8000 ohm coil. Operating current, 0.7 ma. Size: 1 1/2 x 1 1/2 x 1 1/2. Shpg. wt., 7 oz.

Type 4F. A wide selection of plate circuit relays for any 20 to 50 mw. sensitivity application. Unenclosed, with screw mounting, solder terminal and coil lead connection. SPDT contacts rated at 2 amps. For smoke detection, burglar alarms, etc. 1 1/2 x 1 1/2 x 1 1/2. 3 oz.

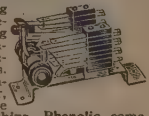
Stock No.	Mfr's Type	Ohms	Ma	DC	EA.
76 P 126	4F-200-S/SIL	200	10.0	6.05	
76 P 133	4F-1000-S/SIL	1000	3.0	6.05	
76 P 378	4F-2500-S/SIL	2500	3.0	6.05	
76 P 379	4F-5000-S/SIL	5000	2.0	6.35	
75 P 285	4F-8000-S/SIL	8000	1.6	6.35	
76 P 127	4F-10000-S/SIL	10000	1.4	6.60	

26F-8000-DC/PAL Relay. Rugged and highly sensitive unit for more efficient radio control model work. Has palladium SPDT contacts, rated 0.5 amp at 28 volts DC or 120 volts AC, 100,000 operations, 8000 ohm coil. Operating current, 0.7 ma. Size: 1 1/2 x 1 1/2 x 1 1/2. Shpg. wt., 7 oz.

7.75

AP RATCHET IMPULSE RELAYS

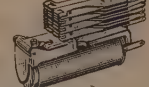
An extremely fast acting relay for applications requiring on-off or reversing action on alternate impulses. Operates on impulses as short as 60 ma. Intermittent duty. Contacts are 1/2" fine silver, rated 5 amps. Coils are wound on molded bobbins. Phenolic cams, hardened steel pawl and ratchet with pin hinged armature. Tinned solder terminals. Mounting: Three 3/8" diameter holes on 3/4 x 7/8" triangular centers. Size: 2 1/2 x 2 1/2 x 3 1/2. AC types for 50-60 cycle. Shpg. wt., 12 oz.



Stock No.	Type	Volts	Action	EACH
75 P 997	AP11A	6 AC	DPDT	8.70
76 P 581	AP11A	12 AC	DPDT	8.70
76 P 995	AP11A	24 AC	DPDT	8.70
75 P 993	AP11A	115 AC	DPDT	8.70
76 P 582	AP11A	230 AC	DPDT	9.15
76 P 585	AP11D	6 DC	DPDT	8.70
75 P 999	AP11D	12 DC	DPDT	8.70
76 P 589	AP11D	110 DC	DPDT	9.35
75 P 996	AP17A	24 AC	4PDT	10.50
75 P 994	AP17A	115 AC	4PDT	10.50
76 P 588	AP17D	12 DC	4PDT	10.50
76 P 579	AP17D	24 DC	4PDT	10.50
76 P 578	AP17D	110 DC	4PDT	11.15

BS SERIES

Long-coil telephone type relays. Ideal for computer and automatic test equipment. Tinned solder terminals for rear panel mounting. Have 4-amp DPDT twin palladium contacts except *4PDT. BS17L and BS23L are plate circuit relays: 15.5 ma, \$7.6 ma operating current. Two No. 8-32 tapped holes on 1/2" mtg. centers. Shpg. wt., 11 oz.



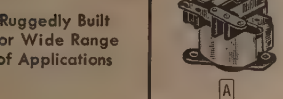
Stock No.	Type	Volts	Ohms	EACH
76 P 646	BS17D	24 DC*	1000	7.40
76 P 647	BS17L	115 AC	10,000	3.00
76 P 000	BS17A	115 AC	71	9.00
76 P 648	BS23A	115 AC	71	10.50
76 P 647	BS23A	24 DC	1000	8.95
76 P 313	BS23D	110 DC	6500	9.50
76 P 499	BS23L	§	10,000	9.50

KT ANTENNA-SWITCHING RELAYS

For selecting either of two antennas or for switching single antenna from receiver to transmitter and vice-versa. Designed for RF applications; glass base insulation for minimum loss. Will switch 300-ohm line. All are DPDT. Mfr's 6-32 stud. Silver 5-amp contacts. Size: 1 1/2 x 1 1/2 x 1 1/2. Shpg. wt., 2 oz.



Stock No.	Type	Volts	EACH
76 P 373	KT11A	6 AC	
76 P 374	KT11A	115 AC	
76 P 375	KT11D	6 DC	3.70
76 P 376	KT11D	12 DC	



SENSITIVE
SIGMA
RELAYS



D Series 41. SPDT contacts rated: *2; †5 amps. Sensitive: 32 to 200 mw. DC; 0.06 to 0.4 V. AC. 2 1/2 x 1 1/2 x 1 1/2. 3 oz.

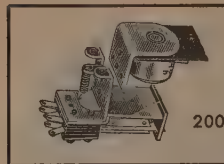
Stock No.	Mfr's Type	Volts	Ohms	DC	EA.
75 P 076	41F2-10-ACG/SIL	6 v.†	10		3.50
76 P 392	41F2-35-ACG/SIL	6 v.*	35		4.00
75 P 077	41F2-200-ACG/SIL	24 v.†	200		3.50
76 P 393	41F2-500-ACG/SIL	115 v.*	500		4.00
75 P 078	41F2-1000-ACG/SIL	115 v.*	1000		3.45
76 P 394	41F2-1000-ACG/SIL	115 v.*	1000		3.45
76 P 395	41F2-5-S/SIL	5 ohms	90		3.85
76 P 396	41F2-50-S/SIL	50 ohms	30		3.85
76 P 397	41F2-200-S/SIL	200 ohms	15		3.85
76 P 398	41F2-1000-S/SIL	10 ohms	5.5		3.85
76 P 399	41F2-500-S/SIL	5 ohms	3.0		4.00
76 P 400	41F2-1000-S/SIL	10 ohms	2.0		4.25

E Model 8RC10A Photorelay. 5-pin plug-in base. Operates at 5 ft. candles, or less. SPDT contacts rated at 5 amps. 2 1/2 x 1 1/2. For 120 v., 50-60 cycle AC. 5 oz.

76 P 108. 15.00

ied Has Complete Stocks of Relays for All Applications

Guardian, Dow-Key, Amperite, Blonder-Tongue Relays



200



1A



2, 4, 11



12, 14



16, 18

GUARDIAN RELAYS AND SOLENOIDS

UNIVERSAL "200" SERIES

Universal interchangeable parts for assembling custom relays. Listings include AC, DC, and plate coils, and switch contact assemblies. Complete relay requires one coil and one contact assembly. Additional parts required for the contact switch parts kit. Contact ratings given are at 115 v. 60 cycle AC, non-inductive load. Use two 6-32 screws for mounting. Overall size: with standard contact assembly, $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ " midget contact assembly, $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ ". Av. shpg. wt., 4 oz.

AC Coils			DC Coils		
Stock No.	Volts	EACH	Stock No.	Volts	EACH
75 P 709	6	1.75	75 P 713	6	1.90
75 P 710	12	1.75	75 P 714	12	1.90
75 P 711	24	1.75	75 P 715	24	1.90
75 P 712	115	2.05	75 P 716	110	1.90
75 P 888	230	2.70	75 P 717	110	2.50

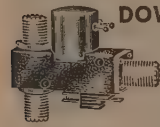
75 P 779. Type 200-5000 D Plate Coil. 5000 ohms. 3 oz. 2.20
75 P 109. Type 200-10,000 D Plate Coil. 10,000 ohms. 3 oz. 2.50

SERIES 200 SWITCH CONTACT ASSEMBLIES

Stock No.	Type	Description	EACH
75 P 707	200-1	SPDT contact assembly. 8 amps.	1.50
75 P 708	200-2	DPDT contact assembly. 8 amps.	2.00
75 P 724	200-4	DPDT contact assembly. 12.5 amps.	2.25
75 P 729	200-5	4PDT contact assembly. 8 amps.	2.50
75 P 710	200-M1	SPDT midget contact assembly. 8 amps.	1.40
75 P 719	200-M2	DPDT midget contact assembly. 8 amps.	1.75
75 P 826	200-M5	4PDT midget contact assembly. 8 amps.	2.85

Type 200-M3. Switch parts kit—adds up to 2 poles to 200-M1, 200-M2.
75 P 725. 3 oz. 1.50

Type 200-3. Switch parts kit—adds up to 2 poles to 200-1, 200-2.
75 P 730. 3 oz. 1.50



DOW-KEY COAX ANTENNA RELAYS

Compact coax antenna relays for switching one antenna between transmitter and receiver, etc. Letter G in type no. indicates shielding that provides 100 db isolation between transmitter and receiver. Pure silver contacts rated to 1 kw. Breakdown v., over 1000 v. rms. Imp., 50 ohms. Loss, less than 0.03 db at 400 mc. VSWR, 1.15:1. Coil terminals have Teflon feed-throughs for high insulation. *Have DPDT 5-amp external contacts.

Size, $2\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$ ". Av. shpg. wt., 1 lb.	
76 P 114. Type DK60. For 12 v. DC.	12.45
76 P 115. Type DK60. For 115 v. AC.	12.45
76 P 953. Type DK60-G. For 12 v. DC.	13.70
76 P 955. Type DK60-G. For 115 v. AC.	13.70
76 P 116. Type DK60-2C*. For 12 v. DC.	14.35
76 P 117. Type DK60-2C*. For 115 v. AC.	14.35
76 P 118. Type DK60-G2C*. For 12 v. DC.	15.65
76 P 119. Type DK60-G2C*. For 115 v. AC.	15.65

DK60-DPDT Switch. Auxiliary DPDT switch. 5-amp contacts. Mounts externally on DK60-G relay above; is actuated by built-in plunger in relay. Shpg. wt., 2 oz.
75 P 843. 1.95

Type DKF-2 Connector. Double male. Mounts relays directly to output of transmitter. Has heavy silver plating construction. For indoor use. Locking type: Shpg. wt., 6 oz.
75 P 946. 1.25

Type DK60-P Connector. Female, for panel mtg. in $\frac{3}{16}$ " hole. 4 oz.
89 S 309. 70¢

Model DK60-M 12V DC Coil. 12-volt relay coil for converting DK60-G 6 v. DC relay or DK60-G 115-volt AC relays for 12-volt DC use. Ideal for 12 v. automotive systems. Shpg. wt., 3 oz.
75 P 947. 2.90

BLONDER-TONGUE THERMO RELAY

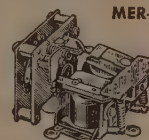
Model TR-3A. Replacement thermal type relay designed especially for use in boosters and UHF converters which automatically turn on and off with FM or television receiver. Also adaptable for numerous other applications in circuits carrying up to 3 amps.

Silver contacts are easily adjustable for a time delay of 0.1 to 4.0 seconds. Will adequately handle up to 0.5 amperes at 117 volts or $\frac{1}{4}$ amp. Will provide uniform operation over a current variation of 0.1 to 3 amperes. Supplied complete with full instructions. Size, $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ ". Shpg. wt., 2 oz.
75 P 000. 1.30

1A1-18 SERIES INDUSTRIAL SOLENOIDS

*Intermittent duty types for applications not requiring energization for more than 5 minutes with sufficient time between cycles for cooling. Should not be permitted to rise more than 85°C above 24°C ambient without time to cool. Continuous duty types will not rise more than 85°C above 24°C ambient temp. when operated at rated load.

Stock No.	Type	Volts	Stroke	Lift Oz.	Size	Lbs.	E.A.
75 P 890	1A1*	115AC	$\frac{1}{4}$ "	8	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	2.80
75 P 891	1A1†	115AC	$\frac{1}{4}$ "	27	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	3.20
75 P 154	2*	115AC	$\frac{1}{4}$ "	104	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	3.20
75 P 155	2†	115AC	$\frac{1}{4}$ "	34	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	3.60
75 P 892	4*	115AC	$\frac{1}{4}$ "	6	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	1	3.00
75 P 893	4†	115AC	$\frac{1}{4}$ "	22	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	4.15
75 P 829	12*	115AC	$\frac{1}{4}$ "	31	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	2.70
75 P 595	11*	6DC	$\frac{1}{4}$ "	29	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	2.70
76 P 318	11†	6DC	$\frac{1}{4}$ "	31	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	2.70
75 P 596	11*	24DC	$\frac{1}{4}$ "	39	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	2.70
76 P 319	11†	24DC	$\frac{1}{4}$ "	63	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	3.50
75 P 894	14*	115AC	$\frac{1}{4}$ "	110	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	5.50
75 P 895	14†	115AC	$\frac{1}{4}$ "	65	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	5.50
75 P 156	16*	115AC	$\frac{1}{4}$ "	96	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	3.20
75 P 885	16†	115AC	$\frac{1}{4}$ "	60	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	3.20
75 P 320	16†	230AC	$\frac{1}{4}$ "	304	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	5.50
75 P 886	18*	115AC	$\frac{1}{4}$ "	145	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	4.50
76 P 321	18†	230AC	$\frac{1}{4}$ "	145	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{4}$	4.70



MER-115 MIDGET STEPPING RELAY

Electrical-reset stepping relay with 21 active positions. The relay resets from an external control on its own contacts. Contacts are rated at 115 v. 60 cycle AC, 115 v. except 250 v. Stepping and reset coils 115 v. 60 cycle AC. Minimum set pulse, 50 ms; reset, 10 ms. Recommended for experimental purposes, original equipment, or replacement. Compact size; only $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ ". Shpg. wt., 13 oz.
75 P 282. 14.00

AMPERITE DELAY RELAYS

Hermetically sealed in glass envelope with octal base. Heater draws 2 watts. Contacts: SPST. 3 amps at 115 v. AC. 1 amp at 220 v. AC. Voltage Breakdown: Contacts, 1000 v.; Heater-to-Contact, 1500 v., except 250 v. and 500 v. for delays of 10 sec. or less. Ambient temperatures from -55° to +70° C. Size, Dia., $1\frac{1}{2}$ ". Height less prongs, $2\frac{1}{4}$ ". Shpg. wt., 4 oz. Be sure to specify type number as well as Stock No.

Delay Seconds	Type No. Normally Open			Type No. Normally Closed		
	6.3 v.	26 v.	115 v.	6.3 v.	26 v.	115 v.
2*	6N02	26N02	115N02	6C2	26C2	115C2
3*	6N05	26N05	115N05	6C5	26C5	115C5
10*	6N010	26N010	115N010	6C10	26C10	115C10
15	6N015	26N015	115N015	6C15	26C15	115C15
20	6N020	26N020	115N020	6C20	26C20	115C20
30	6N030	26N030	115N030	6C30	26C30	115C30
45	6N045	26N045	115N045	6C45	26C45	115C45
60	6N060	26N060	115N060	6C60	26C60	115C60
75	6N075	26N075	115N075	6C75	26C75	115C75
90	6N090	26N090	115N090	6C90	26C90	115C90
120	6N0120	26N0120	115N0120	6C120	26C120	115C120
150	6N0150	26N0150	115N0150	6C150	26C150	115C150
180	6N0180	26N0180	115N0180	6C180	26C180	115C180

75 PP 295. EACH 2.40

Miniature Relays. All types listed in above table, are also available in miniature size except 150 and 180-second units. 9-pin, $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ " size, 3 oz. Specify type no., adding letter "M" following type number. Example: 6N02T.

75 PP 296. EACH 2.40

FLASHERS

(Not illustrated.) All are standard, normally closed types. Operate approximately $\frac{1}{2}$ on, $\frac{1}{4}$ off. Flashes per minute tolerance, $\pm 20\%$, except $\pm 15\%$, $\pm 25\%$. Av. shpg. wt., 2 oz. Be sure to specify type number as well as Stock No. when ordering.

Flashes Per Min.	Octal Base			Miniature 9-Pin		
	6.3 v.	26 v.	115 v.	6.3 v.	26 v.	115 v.
30†	6F30	26F30	115F30	6F30	26F30	115F30
45†	6F45	26F45	115F45	6F45T	26F45T	115F45T
60	6F60	26F60	115F60	6F60T	26F60T	115F60T
75	6F75	26F75		6F75T	26F75T	
90†	6F90	26F90		6F90T	26F90T	

75 PP 280. Standard Octal Base. Each 2.40

75 PP 281. Miniature 9-Pin Base. Each 2.40

Motors, Counters, and Contact Protectors

SELECTED REPLACEMENT MOTORS BY GENERAL ELECTRIC



DOMESTIC OIL-BURNER MOTORS

$\frac{1}{2}$ and $\frac{1}{4}$ -Horsepower
60 Cycles

As low **\$17.95**
as

STANDARD SPLIT-PHASE OPEN MOTORS

$\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$ -Horsepower
60 Cycles

As low **\$15.95**
as

GENERAL-PURPOSE CAPACITOR-START OPEN MOTORS

As low **\$29.50**
as

$\frac{1}{2}$ -HORSEPOWER MOTOR—50°C RISE

Model 5KH39CG301Y. Designed especially for operation of domestic, commercial and industrial oil burners. Split-phase type with 50°C v. continuous duty. Speed, 1725 rpm. Ensure meets U. L. specs for totally enclosed burner motors. Special air-blast design keeps motor cooler—eliminates motor cut-out. Equipped with standard NEMA 2-lug flange mounting. $\frac{7}{8}$ " between lug-centers; $\frac{1}{2}$ " shaft flat—sleeve bearing; built-in manual reset thermal overload protection. Has two 20-inch leads with neoprene-jacket that is oil, grease, water-resistant. Has clockwise rotation. Fully reversible by switching quick-connects terminal board. For 115 v., 60 cycle AC, 10 lbs. **17.95**

$\frac{1}{4}$ -HORSEPOWER MOTOR—50°C RISE

Model 5KH39EG300Y. Same as model above, but has higher output for heavy-duty performance. Shpg. wt., 11½ lbs. **19.50**

$\frac{1}{2}$ -HORSEPOWER MOTOR—40°C RISE

Model 5KH39GG111X. For furnace and air-conditioning fan/blowers, office machines, etc. Has continuous duty sleeve bearings for mounting in any position; manual reset thermal overload protection. 1725 rpm. For moderate starting-torque loads. Service factor, 1.35. Rubber-mount base; NEMA 48 frame; $\frac{1}{2}$ " shaft, flat. For 115 v., 60 cycle AC. 15 lbs. **17.95**
51 NU 390. **17.95**
51 NU 391. Model 5KH35KG103X. Same as above, but $\frac{1}{4}$ horsepower. Wt., 17 lbs. **18.95**

$\frac{1}{4}$ -HORSEPOWER MOTOR—50°C RISE

Model 5KH39GG102. As above, but special service rise. For loads needing moderately high starting-torque—coolers, grinders, drill presses, etc. High starting-currents limit use to applications where starting is infrequent. Service factor, 1.0. Solid base. 15 lbs. **15.95**
51 NU 392. **15.95**
51 NU 396. Model 5KH35KG111. Same as above, but $\frac{1}{2}$ horsepower. Wt., 17 lbs. **17.50**

$\frac{1}{2}$ -HORSEPOWER MOTOR—50°C RISE

Model 5KCA2JG4. Drip-proof construction; continuous-duty, all-angle sleeve bearings for all position mounting. Use on hard-to-start loads (250% of running torque). Typical applications: evaporative coolers, milking machines, attic fans, saws, jointers, etc. Speed, 1725 rpm. Counter-clockwise rotation. 1.0 service factor. —use where max. load is known. Solid base; NEMA 56 frame; $\frac{3}{8}$ " shaft, key. For 115-120 v., 60 cycle AC (voltage change on terminal board. Set for 230 v.) 21 lbs. **29.50**
51 NU 393. **29.50**
51 NU 394. Model 5KCA3MG44. Same as above, but $\frac{3}{4}$ horsepower. Wt., 25 lbs. **36.95**

1-HORSEPOWER MOTOR—50°C RISE

Model 5KCA7SG182. Similar to above, but has higher output for heavy-duty applications. Conforms to NEMA standards. Rotation is counter-clockwise (with rotation change on terminal board). Shpg. wt., 32 lbs. **47.95**
51 NU 395. **47.95**

IT & T CONTACT PROTECTORS

Effective protection for relay contacts controlling inductive circuits. Suppress arcing and RF transients. Operates operating up to 40 times per second, and drawing up to 600 ma operating current. Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Max. V.	Max. ma.	Min. V.	Size	EACH
6 P 257	8A1PA1	26 AC	200	0 AC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	.89
6 P 328	8A2PS1	44 DC	250	23 DC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	.90
6 P 323	8A2PA2	52 AC	200	27 AC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.07
6 P 258	8A3PS1	66 DC	250	45 DC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.07
6 P 296	8A4PS1	88 DC	250	67 DC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.08
6 P 297	8A5PS1	109 DC	250	89 DC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.09
6 P 326	8A5PA5	130 AC	200	105 AC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.40
6 P 298	8A6PS1	132 DC	250	111 DC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.25
6 P 299	8A7PS1	154 DC	250	133 DC	$2\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.26
6 P 330	15A2PS1	44 DC	600	23 DC	$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	.94
6 P 348	15A3PS1	66 DC	600	45 DC	$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.14
6 P 356	15A5PS1	110 DC	600	89 DC	$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.26
6 P 327	15A5PA5	130 AC	400	105 AC	$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.37
6 P 364	15A6PS1	132 DC	500	111 DC	$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	1.37

MURST SYNCHRONOUS MOTORS

Series—100 Inch-Ounce Reversible. For continuous running applications such as alarm systems, displays, process controls. Instantly reversible with SPDT switch; maintain accuracy both clockwise and counter-clockwise. Torque: 100 inch-ounce at 1 min. Case, $2\frac{1}{2}$ " dia. x $2\frac{1}{2}$ " Shaft, $\frac{3}{8}$ " dia. long flattened. Power drain: 5 watts. For 130 v., 60 cycle AC. Shpg. wt., 18 oz.

Series—40-Inch-Ounce Unidirectional. Shaded pole, clockwise rotation. Initial start at full torque of 40 inch-ounce at 1 min. Power drain: 5 watts. Case, $2\frac{1}{2}$ " dia. x $1\frac{3}{4}$ ". Shaft, $\frac{3}{8}$ " dia. by 1" long. For 95-130 v., 60 cycle AC. Shpg. wt., 1 lb.



OUTPUT SPEEDS IN RPM

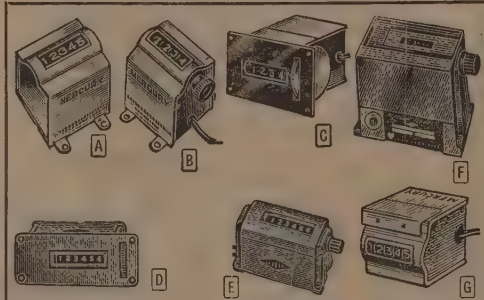
	$\frac{1}{2}$ "	$\frac{3}{8}$ "	8"	20"	33½"	64"	160"	800"
$\frac{1}{2}$ "	2½	3	10*	24	40	80	200	1000
$\frac{3}{8}$ "	3	4	12*	28	48	100	240	1200
$\frac{1}{2}$ "	5*	15*	30*	50	120	400	800	1600
$\frac{3}{4}$ "	6*	16	32	60*	150	600	1200	2400

PP 154, CA Series. All speeds in table above available at **Specialty Speed.** **EACH 9.25**

PP 152, SM Series. Available only in speeds indicated by asterisk in table above—**Specify Speed.** **EACH 9.08**

Make Allied headquarters for all of your electronic needs. You are assured of fast shipment of all Stock items on your order.

GENERAL CONTROLS CO. COUNTERS



ELECTRICAL COUNTERS

High quality electric counters for commercial and industrial applications. For 60-cycle operation. All are 120 v., except *24 v.

Prefix CE-40. Small counters for coin-operated devices and light to moderate-duty industrial applications. Minimum make time 0.04 sec., break time 0.06 sec. Rated at 600 CPM. Enclosed in tamper-proof case. Reset units count to 4 digits, non-reset to 5. Shpg. wt., 1 lb.

Prefix CE-600. Small counters for general industrial purposes. Have minimum make and break time of 0.03 sec. Enclosed in dust-resistant housing. Rated at 1000 CPM, 60-million count life. Have continuous-duty coils. 6 digits. Shpg. wt., 1 lb.

Prefix CE-800. Heavy-duty counter. For use on drill and punch presses! etc. Min. make and break duration, 0.03 sec. 1000 CPM. Tamper-proof aluminum case. 6 digits. Continuous-duty coils. Wt., 5 lbs.

RESET TYPES

Stock No.	Mfr's Type CE-	Fig.	Size	Mount	Mounting Centers	EACH
77 P 039	40BS401	C*	$1\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times 2\frac{1}{2}$	15.95
77 P 049	40BS402	C	$1\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times 2\frac{1}{2}$	15.95
77 P 043	40AS402	B	$2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Base	$1\frac{1}{2} \times 1\frac{1}{2}$	15.25
77 P 236	600AS601	E*	$2\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	Base	$3\frac{1}{2} \times 1\frac{1}{2}$	22.40
77 P 237	600AS602	E	$2\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	Base	$3\frac{1}{2} \times 1\frac{1}{2}$	22.40
77 P 238	600BS601	D*	$2\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	Panel	$4\frac{1}{2} \times 1\frac{1}{2}$	24.00
77 P 239	600BS602	D	$2\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	Panel	$4\frac{1}{2} \times 1\frac{1}{2}$	24.00
77 P 298	800CS602	F	$4\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$	Base	$5\frac{1}{2} \times 2\frac{1}{2}$	43.00

NON-RESET TYPES

77 P 033	40AN502	A	$2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Base	$1\frac{1}{2} \times 1\frac{1}{2}$	7.75
77 P 031	40BN502	G	$1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times \frac{1}{2}$	8.35

Belden Microphone and Special-Purpose Cable

RUBBER AND NEOPRENE MICROPHONE AND SHIELDED POWER SUPPLY CABLE

For use where greater abrasion resistance and flexibility is essential. Ideal when tight bends are encountered or where cable must lie flat. Type 8414 is extra-flexible and limp, has heavy-duty neoprene jacket. 8406 and 8408 are miniaturized. All have tinned copper conductors.

ductors with cotton wrap; cabled with fillers, covered with rayon braid, tinned copper braid shield and black rubber jacket. Order on standard-length spools below. Be certain to specify both the Mfr's Type and the spool size desired when ordering.

Mfr's Type	No. Cond.	AWG Stranding	O.D. Inches	Wkg. Volts	Wt., Lbs. per 100'	Stock No.	STANDARD SPOOLS				
							15'	25'	50'	100'	250'
8406	1	25(7x33)	.245	3000	4	47 TT 444	1.32	2.06	3.82	7.20	16.90
8406	2	20(26x34)	.268	600	5 1/2	47 TT 464	1.50	2.30	4.21	8.08	18.62
8406	3	20(26x34)	.256	600	4	47 TT 500	.....	.....	3.92	7.73	12.89
8406	3	20(26x34)	.277	600	5 1/4	47 TT 463	1.76	.....	4.70	9.11	22.05
8406	4	20(26x34)	.295	600	6 3/4	47 TT 473	2.06	.....	5.54	10.39	25.14
8406	5	20(26x34)	.323	600	7 3/4	47 TT 483	.....	.....	.....	12.94	31.60
8406	5	20(26x34)	.349	600	9	47 TT 493	.....	.....	.....	15.43	38.66
8406	6	20(26x34)	.360	600	10	47 TT 509	.....	.....	.....	16.90	41.16
8408	2	20(26x34)	.386	600	11	48 TT 837	.....	.....	.....	17.64	44.10
8408	2	18(41x34)	.295	600	6 1/4	47 TT 468	.....	.....	.....	10.29	.....
8408	2	24(45x40)	.185	300	2 1/2	47 TT 646	1.47	2.20	3.92	7.35	17.64
8408	3	24(45x40)	.223	300	3	47 TT 288	.....	.....	.....	9.11	22.05

VINYL PLASTIC-COVERED MICROPHONE AND SHIELDED POWER-SUPPLY CABLE

lower capacitance values and lower losses than standard rubber-covered cables. Resist deterioration; have very high resistance to gasoline, and other chemicals. All are relatively lightweight with small diameters. Type 8411 is

especially suited for lapel or lavalier microphones. 8420 is a miniature-type cable. Order on standard length spools below. Be certain to specify both the Mfr's Type and the spool size desired when ordering.

Mfr's Type	No. Cond.	AWG Stranding	O.D. Inches	Wkg. Volts	Wt., Lbs. per 100'	Stock No.	STANDARD SPOOLS				
							15'	25'	50'	100'	250'
8411	1	25(7x33)	.200	5000	2 1/2	47 TT 564	.85	1.18	2.30	4.21	8.82
8411	1	25(7x33)	.144	5000	1	47 TT 604	.70	.99	1.71	3.09	6.57
8411	2	22(16x34)	.231	1000	4	47 TT 456	1.18	1.86	3.52	6.92	12.89
8411	3	20(26x34)	.245	600	5	47 TT 558	1.47	.....	3.67	7.35	18.37
8411	4	20(26x34)	.255	600	5 1/2	47 TT 567	1.87	.....	.....	8.82	20.58
8411	5	20(26x34)	.275	600	6	47 TT 501	.....	.....	.....	10.29	23.51
8411	20	24(45x40)	.185	500	2 1/4	47 TT 635	1.47	2.20	3.33	6.27	16.17

HI-FI, STEREO, AND PHONO CABLES

cables with stranded, tinned copper conductors, vinyl or rubber insulated. Feature extreme flexibility. 8421 is hi-fi connecting cable with spiral shield; all others are phono pickup-arm cables.

8419 and 8429 are for stereo phono pickups. Order on standard length spools below. Be certain to specify both the Mfr's Type and the spool size desired when ordering.

Mfr's Type	Jacket	No. Cond.	AWG Stranding	O.D. Inches	Wt., Lbs. per 100'	Stock No.	STANDARD SPOOLS				
							10'	25'	50'	100'	250'
8419	Chrome Vinyl	1	25(7x33)	.180	2 1/4	47 TT 617	.....	1.18	2.30	3.67	8.33
8419	Rubber	1	24(16x36)	.095	3/4	47 TT 613	.52	.99	.....	3.18	.....
8419	Chrome Vinyl	2	32(7x40)	.050	1 1/4	47 TT 618	.52	.67	.....	4.12	.....
Two #8430 cables for max. channel separation, one for each channel.											
8429	Vinyl	2	32(7x40)	.057	1 1/4	47 TT 619	.67	1.06	.....	1.750	.....
Two #8429 cables for max. channel separation, one for each channel.											
8419	Vinyl	3	32(7x40)	.067	1 1/2	47 TT 620	.73	1.25	.....	10.29	.....

STANDARD AND MINIATURE BROADCAST AUDIO CABLES

co-conductor, color-coded broadcast cables. High insulation resistance and effective shielding eliminate noise and crosstalk. Feature free stripping leads, fast shield termination and small diameters.

for easy servicing. Tinned drain-wire prevents current loops. Spiral-wrapped, braided. Be certain to specify both Mfr's Type and spool size desired when ordering.

Mfr's Type	Type	AWG Stranding	O.D. Inches	Wkg. Volts	Shields	Jacket	Wt., Lbs. per 100'	Stock No.	Std. Spools	
									100'	500'
36	ABC	22(solid)	.190	100	Copper	Black Vinyl	2	48 TT 859	.....	20.58
37	CBS	22(solid)	.200	200	Copper	Black Vinyl	3 1/4	48 TT 886	.....	17.64
41	CBS	22(16x34)	.210	200	Copper	Black Vinyl	3	49 TT 841	4.41	20.87
40	Standard	22(solid)	.193	100	Copper	Chrome Vinyl	3	48 TT 889	.....	20.58
50	Miniature	22(solid)	.118	200	Alum.-"Mylar"	Black Vinyl	1 1/4	49 TT 373	2.94	11.54
51	Miniature	22(7x30)	.135	200	Alum.-"Mylar"	Black Vinyl	1 1/4	49 TT 374	3.33	13.52

FLEXIBLE TEST-PROD WIRE

rubber-covered lead designed for use with test equipment. No. 18 conductor is 65x30 stranded, 8494 conductor with cotton wrap. 8898 has .07" O.D. and .088" rubber insulation. 10,000-v. working voltage; 29,000-v. puncture voltage. Type

8899 has .144" O.D. and .045" rubber insulation. 5000-v. working voltage; 20,000-v. puncture voltage. Ship. wt. per 100 ft: 8898, 4 lbs.; 8899, 2 lbs. Be certain to specify both the Mfr's Type and the spool size desired when ordering.

Mfr's Type	Stock No.	Color	STANDARD SPOOLS			
			10'	25'	100'	500'
8898	47 TT 813	Red	.78	1.47	3.92	16.02
8898	47 TT 803	Black	.78	1.47	3.92	16.02
8899	48 TT 913	Red	.58	.88	2.50	10.34
8899	48 TT 903	Black	.58	.88	2.50	10.34

RETRACTILE (COILED) MICROPHONE AND TELEPHONE CABLE

coiled cables extend up to six times their normal length; conveniently retract out-of-the-way when not in use. Have tinned cadmium-bronze conductors. All mike cables have braided shield

except 8496, 8497 have one shielded conductor; 8494 and 8495 are unshielded telephone cords with spade terminals and strain relief. Choice of vinyl or neoprene jackets. Av. ship. wt., 1/4 lb.

Mfr's Type	No. Cond.	Description	Jacket	AWG Stranding	O.D. Inches	Extends From	Stock No.	EACH	
								47 T	277
8415	4	Microphone Cable	Neoprene	23(21x36)	.250	11 1/2" 6'	47 T 275	1.27	.....
4997	3	Microphone Cable	Neoprene	23(21x36)	.250	11 1/2" 6'	47 T 279	1.40	.....
4997	4	Microphone Cable	Neoprene	24(45x36)	.160	7 1/2" 4'	47 T 286	.88	.....
4997	4	Telephone Cord	Vinyl	23(21x36)	.245	10" 4 1/2"	47 T 276	1.41	.....
4995	3	Telephone Cord	Vinyl	23(21x36)	.220	10" 4 1/2"	47 T 277	1.20	.....
4996	3	Microphone Cable	Vinyl	23(21x36)	.250	11 1/2" 6'	47 T 278	1.31	.....
4998	1	Microphone Cable	Vinyl	24(45x40)	.180	7 1/2" 4'	47 T 285	.81	.....

RUBBER COVERED MICROPHONE CABLE



SINGLE



MULTIPLE

HI-FI STEREO AND PHONO CABLES



HI-FI CABLE



PHONO CABLE

BROADCAST AUDIO CABLES



STANDARD CABLE

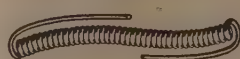


MINIATURE CABLE

TEST PROD WIRE



RETRACTILE COILED CABLES



MICROPHONE



TELEPHONE

Make Allied headquarters for all your electronic needs. Use this catalog as your guide to the world's largest stocks of everything in electronics. Take advantage of our skilled, efficient order-handling personnel and unsurpassed facilities. You get fast, same-day shipment.

Belden Wire and Cable



SRIR THERMOPLASTIC HOOK-UP WIRE

Heavy-duty, thermoplastic-insulated hook-up wire. Rated 1000 v. rms. Have tinned copper conductors. .017" thick insulation. Available in black, brown, red, orange, yellow, green, blue, violet, gray, and white. Specify choice. Av. shpg. wt., 25-ft. spool, 6 oz.; 100-ft. spool, 1 lb.; 1000-ft. spool, 5½ lbs.

25-FOOT SPOOLS—SPECIFY COLOR

Stock No.	Mfr's Type	Size	Strands	O. D.	EACH
47 TT 214	8530	22	Solid	.059"	41¢
47 TT 215	8524	22	Solid	.064"	43¢
47 TT 216	8529	20	Solid	.066"	43¢
47 TT 217	8523	20	Solid	.070"	47¢
47 TT 109	8522	18	Solid	.080"	55¢

100 AND 1000-FOOT SPOOLS—SPECIFY COLOR

Mfr's Type	Size	Strands	O. D.	100' SPOOL		1000' SPOOL	
				No.	EACH	No.	EACH
8525	24	7x32	.058"	47 TT 244	.91	47 TT 245	5.14
8526	22	Solid	.059"	47 TT 218	.81	47 TT 222	4.41
8524	22	7x30	.064"	47 TT 219	.96	47 TT 223	5.73
8529	20	Solid	.066"	47 TT 220	.94	47 TT 224	5.29
8523	20	10x30	.070"	47 TT 221	1.15	47 TT 225	7.01
8528	18	16x30	.080"	47 TT 121	1.36	47 TT 111	8.92
8528	18	Solid	.074"	47 TT 112	1.13	47 TT 113	7.35
8531	16	Solid	.085"	47 TT 246	1.32	47 TT 247	9.95
8521	16	26x30	.098"	47 TT 114	1.69	47 TT 115	12.64
8520	14	41x30	.111"	47 TT 116	1.99	47 TT 117	16.90
8527	12	65x30	.130"	47 TT 118	2.94	47 TT 119	23.52

ASSORTED WIRE KITS

Type 8822. Contains ten 25-ft. spools of Type 8529 hook-up wire and a convenient dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown, gray, and violet. Shpg. wt., 2½ lbs.

47 T 226.....4.31

Type 8824. 8—25-ft. spools of Type 8523 hook-up wire and a dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown. 2½ lbs.

47 T 227.....3.99

Type 8818. 8—25-ft. spools of 8941 No. 20 solid, cellulose acetate hook-up wire. With dispenser. Black, blue, green, red, white, yellow, orange, brown. Shpg. wt., 2 lbs.

47 T 228.....4.94

Type 8820. 8—25-ft. spools of 8943 No. 20 stranded (10x30), cellulose acetate hook-up wire and dispenser in same colors as above. Shpg. wt., 2 lbs.

47 T 229.....4.94

SHIELDED HOOK-UP AND GRID WIRE

Spool of single conductor #20 stranded (10x30) tinned copper conductor; .015" rubber insulation; cellulose acetate yarn braid; lacquered, tinned copper braid shield. Break-down voltage, 4000 volts. O.D., .117". Shpg. wt., 100 ft., 1¼ lbs. Available only in lengths shown—specify.

47 TT 834, 15-ft. spool.....67 25-ft. Spool.....1.00

100-ft. Spool.....3.09 500-ft. Spool.....14.33

COPPER BRAID SHIELDING AND BONDING CABLE

Flexible, braided and tinned copper for shielding conductors and cables. Useful for forming TVI-proof, tubular form for easy slip-on installation over wiring. Av. shpg. wt., per 50 ft., 1½ lbs.



Mfr's Type	10 ft. Spool		50 ft. Spool		250 ft. Spool	
	Stock No.	EA.	Stock No.	EA.	Stock No.	EA.
8660	49 T 351	.50	49 T 350	1.47	47 T 060	6.61
8668	49 T 356	.76	49 T 355	2.02	47 T 061	8.82
8661	49 T 361	.73	49 T 360	2.45	47 T 062	10.88
8669	49 T 366	1.25	49 T 365	5.39	47 T 063	24.40
8662	49 T 381	1.70	49 T 380	6.91	47 T 064	33.81
8663	49 T 842	.79	49 T 843	2.18	47 T 065	9.06

BELDEN LITZ WIRE

Type 8817. 5x44 stranded copper Celen enamel insulated with one nylon wrap. Specifically made for rewinding antenna primaries, hand-winding RF coils. IF coils, and similar radio frequency applications. Outside diameter: .008". 100-ft. spool, Shpg. wt., 2 oz.

48 T 981.....29¢

STRANDED AND SOLID ANTENNA WIRE



High conductivity copper antenna wire. Ideal for all receiving and transmitting antenna requirements. Maximum tensile strength assures minimum stretch. *Formvar insulation protects wire from corrosion. Av. shpg. wt., per 100-ft. coil, 1 lb. Supplied only in spool lengths shown below.

STRANDED BARE COPPER

Type 8000—7x22				Type 8002—7x24		
Stock No.	Spool	EA.		Stock No.	Spool	EA.
47 T 680	50 ft.	.81		47 T 654	50 ft.	.59
47 T 681	75 ft.	1.11		47 T 655	75 ft.	.73
47 T 682	100 ft.	1.42		47 T 656	100 ft.	.96
47 T 683	1,000 ft.	13.23		47 T 657	1,000 ft.	8.82

SOLID *FORMVAR-INSULATED COPPER

Type 8008 No. 12			Type 8009 No. 14		
Stock No.	Spool	EA.	Stock No.	Spool	EA.
47 T 670	100 ft.	2.50	47 T 740	100 ft.	1.70
47 T 735	200 ft.	4.56	47 T 742	200 ft.	3.23
47 T 736	500 ft.	10.68	47 T 741	500 ft.	7.20

INDOOR AERIAL WIRE

Type 8014. Extra flexible. No. 25 stranded (13x36), tinned copper conductor, with chrome vinyl plastic insulation. O.D., .044". Shpg. wt.: 25-ft. spool, 2 oz.; 500-ft. spool, 2 lbs.

47 T 930, 25-ft.....37 47 T 933, 500-ft.....2.65

NYCLAD HEAVY MAGNET WIRE



Type HNC. Combines the most desirable features of Formvar wire with the toughness and solvent resistance of nylon enamel. Unrevelled for difficult and exacting windings of any type. Withstands winding abuse and forming operations; resists softening and brittleness at extreme temperatures; infinite moisture resistance.

½ lb. Spool				1 lb. Spool			
Stock No.	Size	Feet	EACH	Stock No.	Size	Feet	EACH
48 T 036	14	40	.81	48 T 086	14	80	1.31
48 T 037	16	63	.81	48 T 087	16	126	1.31
48 T 038	18	100	.81	48 T 088	18	199	1.31
48 T 039	20	157	.81	48 T 089	20	315	1.31
48 T 040	22	250	.82	48 T 090	22	501	1.35
48 T 041	24	396	.84	48 T 091	24	793	1.43
48 T 042	26	630	.90	48 T 092	26	1260	1.55
48 T 043	28	995	.99	48 T 093	28	1990	1.71
48 T 044	30	1570	1.09	48 T 094	30	3140	1.91
48 T 045	32	2440	1.18	48 T 095	32	4880	2.14
48 T 046	34	3930	1.31	48 T 096	34	7860	2.50
48 T 047	36	6200	1.62	48 T 097	36	12400	3.16
48 T 048	38	9700	2.02	48 T 098	38	19400	4.05
48 T 049	40	16030	2.75	48 T 099	40	32100	5.66

DUPLEX LIGHTING CABLE



Weatherproof 2-conductor stranded lighting cables for outdoor use only. Ideal for extending power lines to yard, garden, garage, barn, etc. Consist of two stranded, tinned copper, vinyl insulated conductors: one conductor brown vinyl, the other red vinyl, running parallel through an oval-shaped, chrome vinyl outer jacket. .022" thickness. 8677 is No. 16 AWG (19x29); O.D., .164x.276". 8675 is No. 14 AWG (19x27); O.D., .189x.326". 8673 is No. 12 AWG (19x25); O.D., .213x.384". Av. shpg. wt., per 100 ft., 5 lbs. In 100' and 500' Spools—specify length.

Stock No.	Type	100 ft. Spool	500 ft. Spool
47 TT 405	8677	5.59	26.46
47 TT 415	8675	7.30	33.81
47 TT 425	8673	9.11	44.10

BELDEN CATHODE-RAY TUBE CABLE



High dielectric, corona resistant, minimum surface leakage CRT cables. No. 22 (7x30) tinned copper, polyethylene insulated. 8868 has red vinyl jacket; rated 25,000 v. working; 50,000 v. breakdown. 8869, black vinyl jkt.; 17,000 v. 35,000 v. breakdown.

Mfr's Type	Insulation	O.D.	25-ft. Spool			100-ft. Spool		
			Stock No.	Wt., Lbs.	EA.	Stock No.	Wt., Lbs.	EA.
8868	.065"	.150"	47 T 897	¼	73¢	47 T 896	1¾	2.35
8869	.029"	.120"	48 T 238	¼	74¢	48 T 239	1¼	1.84

BELDEN RUBBER-COVERED LEAD-IN



Type 8200. Spool of flexible No. 18 tinned copper wire, stranded (7x27), with .040" live rubber insulation. Overall diameter, .126". Av. shpg. wt., 100-ft. spool, 1¼ lbs.

47 T 746, 500-ft.....6.32 47 T 745, 100-ft.....1.62

Consolidated Wire and Cable

RG TYPE COAXIAL CABLE

Manufactured to fully meet commercial standards. Impervious to effects of weather, acids, alkalis and gasoline. All types have upper inner shield except: 58/U, 58A/U and 58C/U, tinned copper. Types 8/U, 11/U, 58/U, 59/U have black vinyl jackets; all other types have a non-contaminating, low-temp. black jacket.



Stock No.	RG No.	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	PER FT.
W 104	8/U	52	29.5	.405"	10½	10¢
W 109	11/U	75	20.5	.405"	10	10¢
W 112	11A/U	75	20.5	.405"	10	11¢
W 113	58/U	53.5	28.5	.195"	3	4¢
W 114	58A/U	50	29.5	.195"	3	4¢
W 115	58C/U	50	29.5	.195"	3	4¢
W 116	59/U	73	21	.242"	4	4¢
W 122	59B/U	75	20.5	.242"	4	4¢

FOAM POLYETHYLENE RG COAXIAL CABLE

Am polyethylene inner dielectric increases flexibility, reduces enuathion. RG-8/U has 7/19 copper center conductor; RG-58/U, copper; RG-59/U, 22 copperweld. All have black vinyl jacket.

Stock No.	Mfr's Type	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	PER FT.
W 169	RG-8/U	50	24.5	.405"	10½	9¢
W 170	RG-58/U	53.5	28.5	.195"	3	4¢
W 173	RG-59/U	72	17	.195"	4	4¢

POTJ AND POT TYPE LAMP CORD

Conductor lamp cord with parallel 18 bare stranded copper conductors. Jackets are polarity ribbed. U.L. Listed. SJ Type is U.L. Type SP-1; POT type, SPT-1. Available only standard 25', 100', 250' and 500' spools—specify length. Shpg., per 100', 3 lbs.



Type	Jacket	Color	Stock No.	STANDARD SPOOLS			
				25'	100'	250'	500'
OSJ	Rubber	Brown	48 TT 763	.68	2.60	4.85	9.40
OSJ	Rubber	Black	48 TT 773	.68	2.60	4.85	9.40
OT	Vinyl Plastic	Brown	48 TT 762	.59	2.10	3.65	6.80
OT	Vinyl Plastic	Black	48 TT 762	.59	2.10	3.65	6.80
OT	Vinyl Plastic	Gray	48 TT 766	.59	2.10	3.65	6.80
OT	Vinyl Plastic	White	48 TT 767	.59	2.10	3.65	6.80

STEREO PICKUP ARM CABLES

32 stranded (7x40) copper conductor with vinyl insulation. Types 1479, 1406, 1407, and 1410 have braided tinned copper shield. Wts.: 1406, 2 lbs.; 1407, 2 lbs.; 1410, 2 lbs.



UNSHIELDED WIRE

Type	Cond.	10-Ft. Spool		25-Ft. Spool		250-Ft. Spool	
		Stock No.	EA.	Stock No.	EA.	Stock No.	EA.
78	2	48 T 523	.32	48 T 524	.44	48 T 525	3.00
01	3	48 T 526	.38	48 T 527	.90	48 T 528	8.25
02	4	48 T 529	.53	48 T 533	1.20	48 T 534	11.25

SHIELDED WIRE

Individually shielded conductors.

Type	Cond.	10-Ft. Spool		25-Ft. Spool		250-Ft. Spool	
		Stock No.	EA.	Stock No.	EA.	Stock No.	EA.
79	2	48 T 535	.45	48 T 536	.83	48 T 537	6.00
06	3	48 T 538	.60	48 T 539	1.28	48 T 543	12.00
07	4	48 T 544	.68	48 T 545	1.50	48 T 546	13.50
10	2*	48 T 547	.60	48 T 548	1.35	48 T 549	12.75

PUSH-BACK HOOK-UP WIRE

20 evenly-drawn pure copper wire. Ination easily pushed back for convenient wiring. Available in both solid and stranded. Double-cotton covered with paraffinated damp-proof bread. 5 different colors. Shpg. wts.: 25 ft., 4 oz.; 100 ft., 1 lb.



STRANDED TYPE, 10x30

Spool	Red	Black	Yellow	Blue	Green	EACH
25 ft.	48 T 442	48 T 440	48 T 444	48 T 441	48 T 443	.36
100 ft.	48 T 447	48 T 445	48 T 449	48 T 446	48 T 448	1.29

SOLID TYPE

Spool	Red	Black	Yellow	Blue	Green	EACH
25 ft.	48 T 472	48 T 470	48 T 474	48 T 471	48 T 473	.34
100 ft.	48 T 477	48 T 475	48 T 479	48 T 476	48 T 478	1.26

THERMOPLASTIC HOOK-UP WIRE

U.L. Approved. Voltage breakdown test, 10,000 volts. Oil and acid resistant. Withstands temperatures up to 80°C. Suitable for high-voltage circuits where low loss and proper insulation is essential. Shpg. wt., per 25 ft. spool, 4 oz.



20 SOLID			20-STRANDED		
48 T 455, Black	25 FOOT SPOOL	29¢ EACH	48 T 460, Black	25 FOOT SPOOL	34¢ EACH
48 T 456, Red			48 T 461, Red		
48 T 457, Blue			48 T 462, Blue		
48 T 458, Green			48 T 463, Green		
48 T 459, Yellow			48 T 464, Yellow		

STRANDED HOOK-UP WIRE

No. 18 tinned soft-drawn copper wire. Cotton wrap and colored rubber insulation overall. Excellent for general wiring in radio-TV chassis, switchboards, etc. Shpg. wt., 25 ft., 5 oz.

Spool	Black	Red	Blue	Green	White	EACH
25 ft.	48 T 200	48 T 201	48 T 202	48 T 203	48 T 205	48¢

HOOK-UP WIRE ASSORTMENTS

Six 25-ft. Coils. High efficiency, stranded copper wire—some tinned, some untinned. Ideal for use where high conductivity with negligible loss is essential. Unusually flexible and durable in assorted gauges, colors and insulation. Designed for the chassis and sub-chassis wiring of radio and television receivers and transmitters, etc. Resists moisture and heat. Shpg. wt., per package, 1 lb.



49 T 344.....PER PKG. 79¢

Five 100-ft. Coils. Kit includes wire in assorted gauges, insulations, colors. Stranded copper—tinned and untinned. 2½ lbs.

49 T 345.....PER PKG. 2.25

"JUKE BOX" SPEAKER CABLE

Has 2 parallel conductors #24 gauge, 7x32 stranded—1 tinned, 1 bare. Vinyl inner insulation and chrome vinyl outer jacket. .058x .115" O.D. In gray, brown, white or clear—specify. Shpg. wt., per 100 ft., 10 oz.



48 TT 245, 25-ft. Spool.....	48 TT 246, 50-ft. Spool.....	3.62
48 TT 247, 100-ft. Spool.....	48 TT 248, 500-ft. Spool.....	9.96
48 TT 249, 1000-ft. Spool.....		7.75

RUBBER-SHEATHED SERVICE CORD

Very high-quality, rubber-sheathed service cord constructed of extra flexible bare copper, cotton served. Excellent for a variety of applications—for household appliances, garden and power tools as well as wherever rough usage power lines are required. 1/4" rubber insulation color-coded conductors are cabled with fillers, cotton wrap and uniform quality black rubber that resists abrasion. U.L. Listed. Available in standard spool lengths in table below—specify length.



SHPG. WTS., 100-FT. SPOOLS

Type, Size	2 Cond.	3 Cond.	Type Size	2 Cond.	3 Cond.
SV#18	4 lbs.	.....	S#16	9½ lbs.	11½ lbs.
SJ#18	5½ lbs.	6¼ lbs.	S#14	11½ lbs.	19 lbs.
SJ#16	6¼ lbs.	8 lbs.	S#12	21 lbs.	23 lbs.
S#18	8½ lbs.	8¾ lbs.	S#10	23 lbs.	29 lbs.

2-CONDUCTOR

Stock No.	Type, Size	A.	O.D. V.	Standard Spools			
				25'	50'	100'	250'
48 TT 439	SV#18	5	.250" 300	1.08	2.03	4.02	9.00
48 TT 441	SJ#18	5	.310" 300	1.35	2.29	4.41	9.96
48 TT 452	SJ#16	7	.340" 300	1.62	2.97	5.67	13.10
48 TT 453	S#18	5	.390" 600	2.23	3.99	7.53	17.77
48 TT 454	S#16	7	.410" 600	2.70	4.86	9.28	22.05
48 TT 465	S#14	15	.540" 600	3.51	6.69	12.55	30.37
48 TT 466	S#12	20	.605" 600	5.61	10.80	20.74	51.75
48 TT 467	S#10	25	.640" 600	6.75	12.82	24.51	60.75

3-CONDUCTOR

Stock No.	Type, Size	A.	O.D. V.	25'	50'	100'	250'
48 TT 508	SJ#18	5	.345" 300	1.97	3.58	6.96	16.31
48 TT 509	SJ#16	7	.375" 300	2.53	4.53	8.71	20.70
48 TT 513	S#18	5	.405" 600	2.91	5.40	10.37	30.60
48 TT 514	S#16	7	.430" 600	3.58	6.75	12.64	47.70
48 TT 515	S#14	15	.560" 600	5.26	10.20	19.48	62.32
48 TT 516	S#12	20	.635" 600	6.75	12.82	24.51	60.75
48 TT 517	S#10	25	.690" 600	8.44	15.87	29.31	72.00

Coaxial Cable, Lacing Cords, Insulation Tubing



CONSOLIDATED MAGNET WIRE SPOOLS
Insulated, soft-drawn copper wire of highest quality. Specially manufactured for all types of coil winding applications—transformers, RF coils, chokes, etc. All sizes indicated below are standard B&S gauge. Shpg. wts.: 1/2-lb. spool, 14 oz.; 1-lb. spool, 1 1/2 lbs.

PLAIN ENAMELED 1/2-LB. SPOOLS

Stock No.	Size	Feet	EACH	Stock No.	Size	Feet	EACH
48 T 100	14	38	.60	48 T 111	26	640	.71
48 T 102	16	63	.60	48 T 112	28	1013	.75
48 T 104	18	104	.60	48 T 113	30	1602	.83
48 T 106	20	159	.62	48 T 114	32	2543	.84
48 T 108	22	253	.65	48 T 115	34	4042	.92
48 T 109	24	402	.65	48 T 116	36	6410	.92

SINGLE COTTON ENAMELED 1-LB. SPOOLS

Stock No.	Size	Feet	EACH	Stock No.	Size	Feet	EACH
48 T 020	14	78	1.44	48 T 028	22	490	1.91
48 T 022	16	124	1.50	48 T 029	24	772	1.95
48 T 023	17	156	1.56	48 T 030	25	936	2.07
48 T 024	18	198	1.62	48 T 031	26	1209	2.19
48 T 025	19	248	1.70	48 T 032	28	1876	2.63
48 T 026	20	312	1.79	48 T 033	30	2780	3.08

CONSOLIDATED HEAVY FORMVAR MAGNET WIRE SPOOLS

Copper magnet wire covered with Formvar; tough, abrasion-resisting film. Stable dielectric under aging and aging of heat; does not fail after two hours at 105° C. Impervious to moisture and petroleum solvents; resists acid and alkali. Takes up less winding space. Replaces enamel, paper, cotton, silk, double cotton, and double silk wire. Wt., per spool, 1 1/2 lbs.

Stock No.	Size	Feet	EACH	Stock No.	Size	Feet	EACH
48 T 180	14	78	1.13	48 T 187	28	1999	1.59
48 T 181	15	91	1.13	48 T 188	29	2280	1.77
48 T 181	16	124	1.13	48 T 189	30	3200	1.79
48 T 181	17	156	1.14	48 T 189	31	4410	2.03
48 T 182	18	198	1.14	48 T 189	32	4900	2.04
48 T 139	19	246	1.19	48 T 146	33	6441	2.16
48 T 182	20	313	1.20	48 T 146	34	7950	2.19
48 T 140	21	397	1.26	48 T 146	35	9002	2.49
48 T 184	22	501	1.26	48 T 191	36	12,800	2.54
48 T 141	23	628	1.34	48 T 148	37	15,898	3.45
48 T 185	24	798	1.34	48 T 192	38	20,000	3.51
48 T 182	25	941	1.43	48 T 149	39	25,188	5.37
48 T 142	26	1200	1.46	48 T 193	40	31,700	5.45
48 T 143	27	1583	1.46				

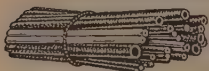
TINNED SOLID COPPER WIRE

Fine quality, soft-drawn copper wire, tinned for easy soldering. Excellent for circuit wiring. Av. shpg. wt.: #2 lbs., #5 lbs.

Stock No.	Gauge	EACH	Stock No.	Gauge	EACH
47 T 128	24	.38	47 T 523	16	1.05
47 T 127	22	.48	47 T 520	14	1.43
47 T 126	20	.54	47 T 530	12	1.98
47 T 125	18	.75	47 T 540	10	4.28

#100-FT. SPOOLS

Stock No.	Gauge	EACH	Stock No.	Gauge	EACH
47 T 525	24	2.55	47 T 533	20	4.13
47 T 527	22	3.38	47 T 535	18	6.75



49 T 220. 26-Piece Assortment.

5 lengths to a package. 4,000 v. dielectric. Av. shpg. wt., 2 oz.

SELECTION OF 36" LENGTHS

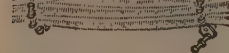
For Wire Size	Black	Yellow	Red	Green	Per Pkg.	5 or More Pkgs. Per Pkg.
20	49 T 164	49 T 165	49 T 166	49 T 167	75	68¢
18	49 T 169	49 T 170	49 T 171	49 T 172	79	72¢
16	49 T 174	49 T 175	49 T 176	49 T 177	83	75¢
14	49 T 179	49 T 180	49 T 181	49 T 182	90	82¢
12	49 T 184	49 T 185	49 T 186	49 T 187	95	86¢
10	49 T 189	49 T 190	49 T 191	49 T 192	1.03	93¢

STRANCO WIRE MARKERS

Laminate markers are self-adhering Mylar wire markers with the legend protected under the clear Mylar surface. Temperature range, -50° to +400°F. Metalcode wire markers are dead soft aluminum foil with a clear Mylar cover over the legend. Shpg. wt. 1 oz.

49 T 898. Laminate. 1-24... EACH 23¢ 25-99... EACH 20¢

49 T 899. Metalcode. 1-24... EACH 25¢ 25-99... EACH 23¢



GENERAL-CEMENT CABLE TIES

Made of high dielectric polyethylene with 45 lb. breaking point. Designed to withstand temperatures of up to +120°F. Each is 4 1/4" long. Shpg. wt., 4 oz. 100 Per Pkg.

Stock No.	Type	Color	PER PKG.
47 T 182	34-432	Red	1.11
47 T 183	34-440	Blue	1.11
47 T 184	34-436	Yellow	1.11

AMPHENOL RG COAXIAL CABLE



Low-loss coaxial cable for RF applications. All meet rigid military and commercial specs. Have vinyl jacket and polyethylene braid. Teflon types operate at temperatures ranging from -74 to +200° C., making them ideal for aircraft and guided missile applications. All are highly resistant to weather, acids, alkalis, and gasoline. Have low moisture absorption qualities.

Stock No.	RG No.	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	1-99 Ft. PER FT.	100-499 Ft. PER FT.	500-999 Ft. PER FT.
49 W 460	8/U	52	29.5	.405"	12	.12	.119	.119
49 W 415	8A/U	52	29.5	.405"	12	.14	.132	.132
49 W 470	11/U	75	20.5	.405"	12	.11	.110	.110
49 W 306	17/U	62	29.5	.870"	47	.63	.583	.525
49 W 485	58/U	63.5	28.5	.195"	3	.05	.049	.049
49 W 487	58A/U	50	28.5	.195"	3	.05	.049	.049
49 W 319	58C/U	50	28.5	.195"	3	.06	.054	.054
49 W 490	59/U	73	21	.242"	8 1/2	.06	.051	.051
49 W 638	59B/U	75	21	.242"	4	.06	.054	.054
49 W 488	62/U	93	13.5	.242"	4 1/2	.06	.054	.054
49 W 312	63/U	125	10	.405"	12	.14	.130	.130
49 W 473	174/U	50	36	.160"	2	.05	.048	.048
49 W 636	115A/U	50	29.5	.415"	18	1.54		
49 W 193	178B/U	50	29	.075"	1	.21	1.39	
49 W 194	178B/U	75	19.5	.105"	1	.25	.23	
49 W 195	100B/U	93	15.5	.141"	1 1/2	.37	.34	
49 W 643	210/U	93	13.5	.242"	4	.69	.62	

POLYFOAM COAX AND MICROPHONE CABLE

Type 21-146 is microphone cable with polyethylene dielectric. Types 621-100, 621-111 and 621-715 are similar to types RG11/U, RG8/U and RG59/U respectively, but have polyfoam dielectric.

Stock No.	Mfr's Type	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	1-99 Ft. PER FT.	100-499 Ft. PER FT.
49 W 313	21-146	45	35	.155"	2	.05	.045
49 W 337	621-100	75	16.5	.405"	2	.05	.045
49 W 339	621-715	73	17	.195"	2	.05	.045
49 W 644	621-111	50	26.5	.405"	10.4	.15	.143

ALPHLEX PVC-105 PLASTIC TUBING (Specify Color)

Resists temperatures from -30° C. to 105° C. Rated at 300 volts resistance, one million megohm tensile strength, 2500 PSI. Sizes 24 and 22, .012" wall thickness; others, .016". In clear, black, red, yellow, green, blue, brown, white, and orange—specify color. Av. shpg. wt., 100 ft., 5 oz.

Size	Nom. I.D.	25-Ft. Coll		100-Ft. Coll	
		Stock No.	EACH	Stock No.	EACH
24	.022"	71 TT 300	.65	71 TT 307	1.61
24	.027"	71 TT 301	.66	71 TT 307	1.62
20	.034"	71 TT 302	.67	71 TT 309	1.66
18	.042"	71 TT 303	.68	71 TT 310	1.73
16	.053"	71 TT 304	.71	71 TT 311	1.85
14	.066"	71 TT 305	.75	71 TT 312	1.99
12	.085"	71 TT 306	.79	71 TT 313	2.14

Tubing as above. Size 10, .016" wall thickness; all other sizes, .020". Available in choice of six popular colors: clear, black, red, yellow, green, and white—specify color. Av. shpg. wt., 100 ft., 10 oz.

Size	Color	Stock No.	EACH
10	1.00"	71 TT 314	.83
8	1.03"	71 TT 315	1.10
6	1.66"	71 TT 316	.23
4	2.08"	71 TT 317	.40
2	2.63"	71 TT 318	.59

Wall thicknesses, size 0, .020"; .025"; .030"; .035". Choice of clear or black—specify. Av. wt., 100', 5 lbs.

Size	Color	Stock No.	EACH
0	.330"	71 TT 324	1.81
3/8"	.312"	71 TT 325	2.11
1/2"	.375"	71 TT 326	2.40
5/8"	.500"	71 TT 327	2.91
3/4"	.625"	71 TT 328	4.08
7/8"	.750"	71 TT 329	5.53

ALPHLEX ELECTRONIC LACING TAPES

High-quality flat lacing tapes in assorted colors. Designed to meet the most stringent military requirements. .014" thick, except LC-134, .010". Shpg. wts.: 200-yd. spool, 8 oz.; 500-yd., 1 lb.

Stock No.	Mfr's Type	Color	Width	Tensile Strength	EACH
47 T 191	LC115	White	.030"	32 lbs.	4.41
47 T 192	LC115	Black	.030"	32 lbs.	5.14

BRAIDED NYLON—500-YARD SPOOLS

Stock No.	Mfr's Type	Color	Width	Tensile Strength	EACH
49 T 980	LC136	White	3/8"	52 lbs.	7.89
49 T 981	LC136	Black	3/8"	52 lbs.	8.53
49 T 982	LC134	White	1/2"	52 lbs.	5.05
49 T 983	LC134	Black	1/2"	52 lbs.	5.68

BRAIDED DACRON—500-YARD SPOOLS

Stock No.	Mfr's Type	Color	Width	Tensile Strength	EACH
49 T 984	LC162	White	3/8"	50 lbs.	7.89
49 T 985	LC162	Black	3/8"	50 lbs.	8.53

Stock No.	Mfr's Type	Color	Width	Tensile Strength	EACH
49 T 986	LC162	White	1/2"	50 lbs.	7.89
49 T 987	LC162	Black	1/2"	50 lbs.	8.53

LUDLOW CABLE LACING CORD

Waxed linen twine. Hard-twist gray 8-cord; 50-lb. test. 1-lb. spool, 450 yds.; 1/2-lb. spool, 225 yds. Shpg. wts.: 1-lb. spool, 1 1/4 lbs.; 1/2-lb. spool, 3/4 lb.

49 T 245. 1-lb. Spool... 3.18

49 T 246. 1/2-lb. Spool... 1.68

DC Power Supplies and Converters

ELECTRO-PRODUCTS POWER SUPPLIES



PS-2



D-612T

PS-2 DC POWER SUPPLY

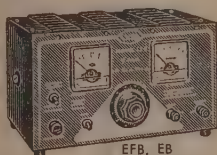
For servicing transistor portable radios and auto radios. Has output ranges with separate current meters and output terminal for voltage adjustment; pi-type filter for hash-free output. 8x5 3/4". For 117 v., 50-60 cycle AC. Shpg. wt., 18 lbs.
\$469. \$5 Monthly.....56.00

D-612T DC POWER SUPPLY

Power supply for servicing auto radios, battery charging, etc. continuously variable ranges: 0-8 volts and 0-16 volts. Full 10 amps on both ranges. Up to 100% intermittent overload. Less than 5% ripple at 5 amps, 2-pos. range switch; panel-mounted fuse. Rugged blue hammerloid steel cabinet. 7x12x8 1/2". For 117 v., 50-60 cycle AC. Shpg. wt., 25 lbs.
\$462. \$5 Monthly.....59.95

EFB DC POWER SUPPLY

Very low ripple for transistor. 0-16 volts up to 8 amps; 0-16 volts up to 4 amps. Less than 1% AC ripple—has 2 chokes and capacitors. Current and voltage meters. Rugged blue steel cabinet. 7x12x8 1/2". For 117 v., 50-60 cycle AC. 4 lbs.
\$452. \$8 Monthly \$140.00



EFB, EB

GU 453. Model EB DC Power Supply. Same as EFB above but with less filtering. Ripple, 5%. Wt., 30 lbs. **\$6 Monthly.....115.00**

PERMA-POWER

RADIO BATTERY ELIMINATOR

Model "A". Converts battery radios, 1.5-1.5 v. DC, "B" power: 1.5-1.5 v. DC at 13 ma. Fits in battery compartments of most radios. Large variety of sockets. 2 1/2 x 6 x 4 1/2". Listed. For 105-125 VAC. Shpg. 4 lbs.
\$006.....12.40



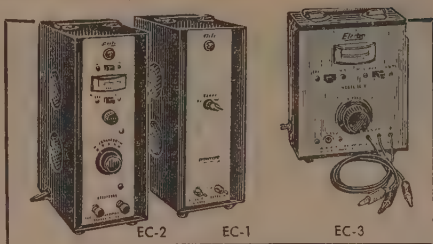
125C14 PORTAPOWER



- Combination Inverter and Battery Charger
- Charger Replaces Battery Power Used by Inverter!

ables user to change DC battery power 110 volts AC, for portable, mobile or marine operation of radios, transmitters, recorders, television, etc. Then... when power is available... changes AC back DC battery power. Compact power unit consists of a heavy-duty inverter and a rapid charging circuit for a 12-volt auto battery.

Battery must be used with unit as a means of storing the DC power developed by unit's charging circuit; the inverter section runs the charged battery and provides up to 110 watts of 110 volt, 60 cycle AC, continuously. A fully charged battery will power a standard TV set up to 6 hours; a record player up to 12 hours. Complete recharging of a battery can be accomplished by portapower overnight from regular 110-120 v., 60 cycle AC power lines. Size, 5 1/2 x 2 1/2 x 11". Shpg. wt., 19 lbs.
GU 575. \$5 Monthly.....63.70



EC-2 PORTABLE DC POWER SUPPLY

Versatile DC power supply provides very well-filtered, adjustable DC output of 0-16 volts at 5 amps. Ripple is less than 0.5% at full output. Extremely compact, space-saving design; measures only 10 1/2 x 4 1/2 x 6 1/2"; takes up only 4 3/4" on service bench. Portable; easily carried anywhere. Includes combination voltmeter-ammeter pilot light, fuse. In two-tone gray cabinet. For 117 v., 50-60 cycle AC. Shpg. wt., 11 lbs.
\$460. \$5 Monthly.....39.95

EC-1 PORTABLE DC POWER SUPPLY

Provides 12 volts DC with a 5-ampere output. Output is exceptionally well-filtered; has less than 0.5% ripple. Has 4-position voltage adjustment switch; off, low, medium and high. Includes pilot light; wing-nut output terminals. Regulation is 1.4 volts per amp (no load to F.L.). For 117 v., 50-60 cycle AC. 10 1/2 x 4 1/2 x 6 1/2". 12 lbs.
\$456. \$5 Monthly.....29.95

NEW EC-3 PORTABLE DC POWER SUPPLY WITH BIAS TAP

For portable transistor radio servicing. Supplies well-filtered 0-20 volts DC, @ 150 ma continuous (24 volts @ 100 ma.). Bias tap output is 0-6 volts DC—operates radios with 1.5, 3.0, 2.8 volts, or any other bias plus center-tap radios. Meter may be switched to read output voltage or current. With output leads and enameled steel cabinet. 6 1/2 x 5 x 3 1/2". 5 lbs.
\$458. \$5 Monthly.....19.95

SENCORE

NEW BE124 BATTERY ELIMINATOR

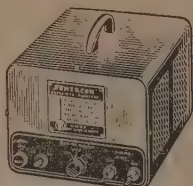
For servicing transistor radios. Tapped voltages at 1.5 v. DC intervals, from 0-12 v. on front panel provide B+, bias and center-tap voltages. With voltage calibrate pot. Meter monitors 0-50 ma. Charges nickel cadmium batteries. Replaces batteries during transistor-radio repair. 5x4x3". 3 lbs.
69 FU 703. \$5 Monthly.....24.45



CORNELL-DUBILIER

HIGH-QUALITY CONVERTERS

Famous "Powercon" DC-to-AC converters. Efficient vibrator-type units recommended for operating AC appliances from DC power sources. All have well-regulated outputs of 110 volts, 60 cycle AC—output stability is maintained regardless of load. Have high ratings for intermittent overloads; wattage figures for intermittent use are rated for power factors from 70-100%. Superior RF filtering assures an output free of "hash"—permits clear, interference-free TV, shortwave, AM and FM reception. *For small, portable type dictating machines. Model 125S14 has case with room for battery.



Stock No.	Model Type	Typical Applications	Input V. DC	Watts Cont. Inter.	Size	Wt. Lbs. EACH
64 G 562	6/12D6	Dictating machines*	6/12	60 75	5 1/2 x 7 3/4 x 6 1/4"	11 1/2 28.66
64 G 565	12SP2	Electric Shaver	12	20 20	2 1/2 x 2 1/2 x 3 3/8"	2 8.77
64 G 566	12L8	Radio, phono, recorder	12	80 100	5 1/2 x 6 1/2 x 8 1/2"	12 25.81
64 G 567	12S10	Radio, recorder, PA	12	100 125	5 1/2 x 6 1/2 x 9"	14 41.55
64 GZ 568	12SS14	TV, recorder, PA	12	140 175	9 1/2 x 9 1/2 x 14"	28 63.70
64 GU 569	12H15	Radio, recorder, PA	12	150 175	6 1/2 x 7 1/2 x 11"	26 57.04
64 GU 571	110H25	TV, recorder, PA	110	250 325	6 1/2 x 7 1/2 x 11"	26 51.35

VIBRATORS FOR ABOVE CONVERTERS

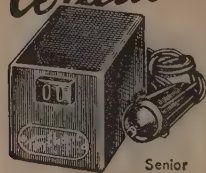
Replace vibrators in many mobile amplifiers. Vibrators with VB in Type No. are mounted in solid steel box equipped with a sponge-rubber liner for minimum

noise and maximum stability; VD less liner for greater heat dissipation. *Tandem type with higher power capacity; has two 6-pin plugs on case, 1 lb.



Stock No.	Type	Volts	Used in "Powercon" Models	EACH
91 C 310	6VB6H	.6	6, 6R5, 6S8, 6SW8	8.35
91 C 311	2563	.6	6/12D5, 6L6, 12L8	6.41
91 C 314	*12VD6H	12	12H15, 12H15, 12SH20, 12SW25	14.52
91 C 312	12VB6H	12	12SW10, 12S10	8.35
91 C 321	110VB6H	110	110L10, 110SW10, 110H25	8.35

terado



Senior

Terado and Schauer Converters, Chargers

CONVERTERS, CHARGERS AND ADJUSTERS

Converters. For operating 110 v., 60 cycle AC devices from cars or trucks. Converter plug fits auto cigarette-lighter socket, except 1-cup directly to battery terminals with clips provided; has 20-ft. input cord and mtg. bracket. Check wallage requirements and battery voltage before selecting converter. Chargers. 1½-amp Tiny Giant for autos and boats. With clips for direct connection to battery terminals; buzzer indicates improper connection. Copper-clad steel case. Pocket-size 5-amp charger is full-wave type with 2 miniature silicon rectifiers. Charges battery through lighter of car, boat or plane with plug supplied; charge indicator light shows battery condition. In steel case. 10-amp charger is similar to 5-amp model, except with ammeter.

VIBRATOR-TYPE CONVERTERS

Stock No.	Mfr's Type	Model	Input DC Volts	Watts	Size	Wt. Lbs.	EACH
64 G 600	50-102	Auto Shaver	6	10-15	2x3x4"	2	9.12
64 G 602	50-103	Auto Shaver	12	15-20	2x3x4"	2	8.12
64 G 603	50-115	Senior	6	30-50	2½x2½x4½"	¾	15.66
64 G 604	50-126	Super	6	60-75	6x5x4"	8	32.65
64 G 605	50-127	Super	12	75-100	6x5x4"	8	32.65
64 G 606	50-167	Electrical	12	42-52	3x5½x2½"	¾	17.62
64 GU 608	50-175	Recorder	12	150-175	10½x10x6"	21	65.04
64 G 609	50-179*	Sportsman	12	42-52	5½x3x2½"	4	20.88
64 G 611	50-137†	Chief	6	75-125	6x5x4"	9	45.73
64 G 613	50-138†	Chief	12	100-125	6x5x4"	9	45.73
64 G 616	50-134	Automatic	6 and 12	55-110	4x5x6"	9	37.88
64 GU 619	50-153*	Supreme	12	175-200	6x6x11"	24	71.87

CHARGERS

Stock No.	Mfr's Type	DC Output Volts	Amps	Input at 50-60 Cycle AC	Size	Wt. Lbs.	EACH
64 G 621	50-185	6/12	1½	110/120	2½x3x5½"	2	7.50
64 G 622	50-180	12	5	110/120	5½x3x2½"	2½	13.69
64 G 623	50-181	6/12	10	110/120	3½x5x7"	7½	25.45
64 GU 624	50-183	6/12	20	110/120	11x6x6"	22	47.92

110 AC LINE-VOLTAGE ADJUSTERS

MODEL 50-172 "SATURN" ADJUSTER

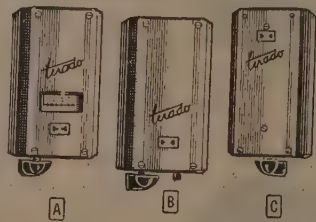
A Changes regular AC line input 25 volts above or below normal. Has accurate AC volt meter. Capacity, 300 watts cont.; 500 watts inter. 5½x3x2½". Wt., lbs. 64 G 625. \$14.65

MODEL 50-173 "JUPITER" ADJUSTER

B Designed to increase or decrease speed of electric hand tools such as drills, etc. Changes regular AC line voltage to 20 volts above normal, or lowers voltage in seven steps to 50 volts. Capacity, 300 watts cont.; 500 watts inter. 5½x3x2½". 3 lbs. 64 G 626. \$12.63

MODEL 50-203 "PLANET" ADJUSTER

C Increases efficiency of motorized equipment. Hi-Fi, and portable TV. Output, 95 to 135 volts. Capacity, 150 watts cont.; 300 watts inter. 5½x3x2½". Wt. 2 lbs. 64 G 627. \$7.80



MODEL 50-204 "POLARIS" ADJUSTER

(Not ill.) Like "Planet" at left, but for higher voltage equipment. Output adjustable from 95 to 135 volts. Capacity, 300 watts cont.; 500 watts inter. 5½x3x2½". 3 lbs. 64 G 628. \$9.20

SCHAUER BATTERY CHARGERS AND ACCESSORIES



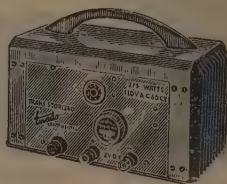
4, 6 AND 10-AMPERE BATTERY CHARGERS

Compact, efficient battery chargers. Car owners who use their electrical accessories, such as heater, radio, fan, etc., to a great extent find these units excellent for restoring their car batteries to full charge overnight. Models A5612, B4612 and C4612 have selector switches for changing from 6-volt to 12-volt operation. All have automatic safeguard provision against short circuits and overloads. Models A5612, B4612, C4612 and C412 have accurate numerical dial ammeter to show exact rate of charge entering battery. Model A3 is an economy unit that includes full-wave charging output which

makes possible higher efficiency of operation. Has selenium rectifiers for dependable service. Model C4612 will recharge a vehicle 6 or 12 volt battery in 6 hours or less; is ideal for quick charging during intervals when equipment is not in use, but must be ready in a hurry. Model C412 is a heavy-duty unit for keeping truck or tractor batteries charged; will charge one 12-volt or two series connected 6-volt batteries. All chargers have handy clip terminals for attaching to battery; no need to disconnect or remove battery from car. All units operate from 110-120 v., 60 cycle AC.

Stock No.	Mfr's Type	Charging Rate (Amps)	Volts	Full Charge Average Battery in	Size	Wt. Lbs.	EACH
64 G 542	A5612	4	6 and 12	10 hours	6½x4½x4½"	4¾	14.25
64 G 543	A3	6	6	10 hours	6½x4½x4½"	4	9.70
64 G 545	B4612	6	6 and 12	7-9 hours	7½x6½x6½"	8½	17.70
64 G 548	B412	6	12	7-9 hours	6½x6½x7"	8	17.20
64 G 549	C4612	10	6 and 12	6 hours or less	6½x6½x7"	10½	24.70
64 G 550	C412	10	12	6 hours or less	6½x6½x7"	10	22.45

DC-TO-AC 60 CYCLE TRANSISTOR CONVERTERS



300-Watt Filtered Output

For TV, Phonos, Recorder

50-1



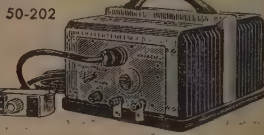
Remote Control

- Converts DC to 115 Volt, 60 Cycle AC
- Output-Frequency Stable to Within ½ Cycle
- Fully Transistorized for Greater Power

Model 50-191 "Continental" with Remote Control. High-powered transistorized unit converts 12 v. DC to 115 v., 60 cycle AC. Provides 300-watt filtered output; perfect for tape recorders, phonos, TV, etc. Chrome-plated remote control mounts on dashboard—converter may be installed in trunk, out of the way. Remote control has AC receptacle, variable AC voltage output switch and signal light. Has tuned frequency read for perfect cycle control. Copper-clad finish on steel case of 10½x6". Includes all plugs and cable for installation. Shpg. wt., 30 lbs. 64 GU 629. \$7 Monthly. \$129.80

Model 50-200 "Atlas" with Remote Control. Same as "Continental" above, but has 200-watt output. 6x10½x6". Shpg. wt., 21 lbs. 64 GU 631. \$5 Monthly. \$97.20

Model 50-201 "Titan." Similar to "Atlas" but has 175-watt output, and less remote. 20 lbs. 64 GU 634. \$5 Monthly. \$85.30



Remote Control

Model 50-202 "Dual Continental" with Remote Control. Fully transistorized, high-duty converter. Converts 12 v. DC to 110 v., 60 cycle AC. Provides 600 watts of filtered output; frequency stable to within ½ cycle. Remote unit mounts on dash; has AC receptacle, variable voltage switch, signal light. 10½x13x6". With battery cables. Wt., 60 lbs. 64 GU 636. \$14 Monthly. \$261.30

MODEL A-8478 HANDY "KAR-START"

Helps start cars in cold and wet weather—a instant of starting. "Kar-Start" sends 5 times the normal spark intensity through engine's spark plugs. Has no effect on engine performance—unit disconnects automatically as soon as engine is running; is not harmful in any way to plugs or distributor. Especially helpful on cars normally parked outside in winter—save battery, gasoline and time. Installs quickly and easily—has only three wires to connect. For both 6 and 12-volt auto ignition systems. 2½x1½x2". Shpg. wt., 6 oz. 64 G 540. \$4.25

TYPE A-8412 CHARGER PLUG

Connects charger to battery by plugging into car's cigarette lighter. May also be used as a replacement plug for power converters. For 12-volt cars. Wt., 4 oz. 64 G 541. \$1.30

Eico and ATR Power Supplies and Inverters

EICO POWER SUPPLIES—KITS AND FACTORY WIRED

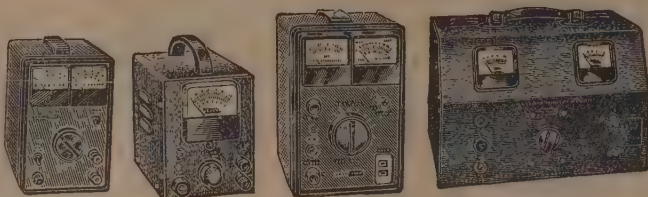


DEL 1064-K BATTERY CHARGER KIT

lar, easy-to-build 6 and 12-volt battery eliminator and charger kit. Delivers the ripple DC necessary for servicing transistorized equipment. Has two DC voltage ranges: 0-6 v. @ 10 amps continuous, 20 amps intermittent; 0-16 v. @ 6 amps continuous, 10 s intermittent. Ripple: 6-16 v. range, 1% amps; 0-8 v. range, 4.5% @ 10 amps. Rate voltmeter and ammeter permit simultaneous monitoring of voltage and current other ranges, $8\frac{1}{2} \times 5\frac{1}{4} \times 7\frac{1}{2}$ ". For 105-125 v., 0 cycle AC. Shpg. wt., 14 lbs.

637, \$5 Monthly.....45.95

del 1064. As above, but factory-wired.
639, \$5 Monthly.....54.95



1064-K

1020-K

1073-K

1060-K

MODEL 1020-K POWER SUPPLY KIT

Standardized DC power and bias supply. Provides variable output voltage up to 30 v. Has 1-range voltmeter (0-6, 0-30 VDC) for monitoring output. Perfect for servicing "hybrid" transistors or all-transistor equipment. Useful as a DC filament supply, a bias source, and source of ripple-free DC for lab use.

Minimum continuous output, 150 ma from 0-10 v.; 200 ma from 12-24 v.; 300 ma from 24-30 v. Uses full-wave silicon diode rectifier circuit and electrolytic capacitor input filter followed by two power transistors in a cascaded filter unit. Filters ensure extraordinary ripple reduction—maximum ripple at full load is only 5%. Fuse protects circuit in case of overload; pilot light remains lit if fuse blows.

gray wrinkle steel case with carrying handle. Size, $8\frac{1}{2} \times 5\frac{1}{4} \times 7\frac{1}{2}$ ". Less add'l for 105-125 v., 60 cycle AC. Shpg. wt., $4\frac{1}{2}$ lbs.

G 500, \$5 Monthly.....23.95

del 1020. As above, but factory-wired.
G 503, \$5 Monthly.....29.95

MODEL 1073-K METERED

VARIABLE-AC BENCH SUPPLY KIT

Easy-to-build, lab type AC bench supply. Provides adjustable output of 0-140 v. AC from 120 v. AC input. Handles 3 amps. Voltmeter and ammeter permit simultaneous monitoring of voltage and current. Ammeter has dual range (0-1, 0-3 amps); can be switched while under load. Uses variable auto-transformer of toroidal core design. Auto-transformer and ammeter are separately fused. In steel case, $8\frac{1}{2} \times 5\frac{1}{4} \times 7\frac{1}{2}$ ". With case, parts, instructions. For 105-125 v., 60 cycle AC. 16 lbs.

64 GX 506, \$5 Monthly.....35.95

Model 1073. As above, but factory-wired.
64 GX 507, \$5 Monthly.....47.95

Model 1078-K. Same as Model 1073-K above, but reads 0-2.5 and 0-7.5 amps. Wt., 16 lbs.

64 GX 508, \$5 Monthly.....42.95

Model 1078. As above, but factory-wired.
64 GX 509, \$5 Monthly.....54.95

MODEL 1060-K DELUXE BATTERY

CHARGER-ELIMINATOR KIT

Operates any 6 or 12-v. auto radio, including transistor models. Features: extra filtering and continuous voltage adjustment by variable transformer; heavy-duty selenium rectifiers; fused primary. Low range: 0-8 v. @ 10 amps continuous, 20 amps intermittent; 1.5% ripple at 2 amps, 2% at 6 amps. High range: 0-16 v. @ 6 amps continuous, 10 amps intermittent; 0.3% ripple at 2 amps, 1.5% at 10 amps. With case, parts, $8\frac{1}{2} \times 10\frac{1}{2} \times 7\frac{1}{2}$ ". For 105-125 v., 60 cycle AC. Wt., 19 lbs.

64 GX 640, \$5 Monthly.....39.95

Model 1060. As above, but factory-wired.
64 GX 641, \$5 Monthly.....49.95

Model 1050-K Battery Eliminator Kit. For 6 and 12 v. auto radios. Same as Model 1060-K above, but less smoothing filter. 15 lbs.

64 GX 642, \$5 Monthly.....29.95

Model 1050. As above, but factory-wired.
64 GX 653, \$5 Monthly.....38.95

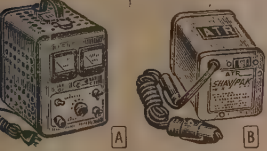
ATR HIGH-QUALITY INVERTERS AND POWER SUPPLIES

DC TO AC UNIVERSAL INVERTERS

- Ruggedly Constructed
- Exceptionally Stable
- Fully Shielded to Prevent RF Interference

Universal inverters for operating 115-volt, 60 cycle AC equipment from DC voltages in autos, buses, trucks, boats, trains, planes; and areas with DC power distribution. Designed for use with standard 115-volt AC tape recorders, TV sets, radios, PA systems, electric razors, test equipment, etc. Operating efficiency is in excess of 75%. Four-point voltage regulator corrects output voltage for minimum and maximum loads, and also helps compensate for input voltages lower or higher than normal. Recommended for use with loads having power factors in excess of 70%. Not

recommended for large motor driven appliances such as refrigerators, washing machines, etc. All have On-Off switches. In gray hammerfold metal cases with carrying strap. Sizes: RSP, $6\frac{1}{2} \times 11\frac{1}{2} \times 8\frac{1}{2}$ ". RHG, $6\frac{1}{2} \times 11\frac{1}{2} \times 8\frac{1}{2}$ ". With battery clips; model with "P" suffix has adapter cord for auto cigarette lighter sockets. *Recommended for 24-volt operation. Check wattage rating of equipment before ordering.



6-12 V. DC POWER SUPPLIES

Type 610C-ELIF. Specially designed DC power supply for testing and operating autos and other DC apparatus from regular 50-60 cycle AC power line. Provides over 6 volts @ 10 amperes continuous, or 12 v. @ 6 amperes continuous with minimum ripple. Has separate voltmeter and ammeter; wave selenium rectifier. Toggle switch sets 6 or 12 volts output. 8 position voltage selector adjusts output voltage. Has gray steel case. Size, $6\frac{1}{2} \times 9\frac{1}{2} \times 8\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 22 lbs.

GU 525, \$5 Monthly.....48.95

Type 620C-ELIT. Heavy-duty model. Uses dual, dry disc selenium rectifiers—provides a full wave output that assures noiseless operation. Rated output: 6 volts @ 20 amperes or 12 volts @ 10 amperes. Has separate voltmeter and ammeter; monitors current and voltage output simultaneously. 8-position voltage selector control permits adjusting voltage output to desired level. In gray steel case. Handle, Size, $6\frac{1}{2} \times 12\frac{1}{2} \times 8\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 33 lbs.

GU 526, \$5 Monthly.....65.61

6 AND 12 V. SHAV-PAKS

Miniature inverters that operate standard AC electric shavers from 6 and 12-volt storage batteries in autos, buses, trucks, boats and planes. Small and compact; measure only $4\frac{1}{2} \times 2\frac{1}{2}$ ". The height of convenience for traveling salesmen, executives, sportsmen, tourists, etc. Unit simply plugs into cigarette lighter receptacle on car's dashboard and changes DC battery power to standard 115-volt AC for shavers, other small electrical devices. Both 6 and 12-volt models provide 115-volts, 60 cycle AC output at 15 watts. In gray hammerfold metal case. Shpg. wt., $2\frac{1}{2}$ lbs.

Stock No. Type DC Input EACH
4 G 654 6-SPB 6 volts 7.81
4 G 655 12-SPB 12 volts 7.81

Stock No.	Mfr's Type	Input DC Volts	Output 60 Cycle	Watts		Wt. Lbs.	EACH
				Cont.	Inter.		
64 GU 527	6U-RHG	6	110 v.	125	150	27	65.01
64 GU 528	12U-RSF	12	110 v.	100	125	22	49.00
64 GU 529	12U-RSF-P	12	110 v.	100	125	22	49.00
64 GU 530	12U-RHG	12	110 v.	150	175	27	65.01
64 GU 531	12U-RHSJ	12	110 v.	200	250	37	81.67
64 GU 532	28U-RSP*	28	110 v.	100	125	22	58.77
64 GU 533	28U-RHG*	28	110 v.	150	175	27	70.00
64 GU 534	50U-RSF	50	110 v.	100	150	22	58.77
64 GU 535	110U-RSF	110	110 v.	150	250	22	49.00
64 GU 536	110AU-RHG	110	110 v.	250	325	27	58.77
64 GU 537	110U-RHSJ	110	110 v.	400	600	37	94.74

PORTABLE PLUG-IN TYPE DC-TO-AC INVERTERS



Lightweight inverters for operating 110 v. AC equipment from DC voltage sources. Feature excellent frequency stability and high efficiency. 6 and 12-volt units plug into cigarette lighter receptacle of any vehicle; others are equipped with standard 2-prong plugs. All are designed especially for use with dictating machines, record players, electric razors, test equipment, etc. Not recommended for tape recorders and large motor driven appliances such as refrigerators, washing machines, etc. Gray hammerfold case with leather carrying strap. Sizes: DME, $5\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ "; RME and RMF, $8\frac{1}{2} \times 8\frac{1}{2} \times 3\frac{1}{2}$ ". *Recommended for 24-volt operation. RME and RMF types are equipped with an adjustable, 4-position voltage regulator, calibrated for low, medium high and maximum loads. All are for use with loads having power factors over 80%. Check wattage rating of equipment before ordering.

Stock No.	Mfr's Type	Input DC Volts	Output 60 Cycle	Watts		Wt. Lbs.	EACH
				Cont.	Inter.		
64 G 656	6-DME	6	110 v.	30	40	5	16.30
64 G 657	6-DME	6-12	110 v.	30	40	5	18.91
64 G 658	6-RMF	6	110 v.	60	80	12	32.34
64 G 659	6C-RMF	6-12	110 v.	60	80	12	35.91
64 G 662	12-DME	12	110 v.	40	50	5	16.30
64 G 663	12-RMF	12	110 v.	90	125	12	32.34
64 G 664	28-RME	28	110 v.	80	100	12	45.41
64 GX 666	110-RME	110	110 v.	100	150	12	38.88

Panel Meters and Testers

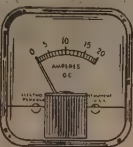
LOW-COST PANEL METERS

EMICO

Designed to give long, trouble-free performance



NF-2C



RF-2 1/4 C



RF-2C



Model 13 Edgewise

Dependable panel meters at low price, styled to give a prestige appearance to electrical equipment. DC meters have "HI-TORQUE" magnetic movements; AC meters are of the moving-iron type. Designed for long, trouble-free performance under severe operating conditions. All are accurate to within 5%. Calibrated in their steel cases, meters need no further adjustments—their accuracy is not affected by mounting in panels constructed of magnetic metals. Model RF-2 1/4 C has Plexiglass front. All have black enameled or zinc irridite steel cases. Dimensions (overall depth and flange size): Model NF-2C, 1 1/2 x 2 1/4"; Model RF-2 1/4 C, 1 1/2 x 2 1/4" — fit in 2 1/2" dia. hole; Model 13, all plastic 3/4 x 1 3/4 x 2 1/4". All have screw terminal binding posts and/or lugs for solder connections. Mounting hardware included. Av. shpg. wt., 9 oz.

DC MILLIAMMETERS

Model NF-2C			Model RF-2C			Model RF-2 1/4 C			Model 13		
Range	Stock No.	1-24 EACH	Range	Stock No.	1-24 EACH	Range	Stock No.	1-24 EACH	Range	Stock No.	1-24 EACH
0-1	67 F 609	3.63	0-1	67 F 614	3.67	0-1	68 F 012	3.97	0-1	66 F 023	3.97
0-5	68 F 970	2.30	0-5	68 F 971	2.35	0-5	66 F 022	2.65	0-5	66 F 024	2.65
0-10	67 F 600	2.16	0-10	67 F 615	2.22	0-10	68 F 013	2.50	0-10	66 F 025	2.50
0-20	67 F 601		0-20	67 F 616		0-20	68 F 014		0-20	66 F 026	
0-30	67 F 602	1.86	0-30	67 F 617	1.96	0-30	68 F 015	2.25	0-30	66 F 027	2.25
0-50	67 F 603		0-50	67 F 618		0-50	68 F 016		0-50	66 F 028	
0-100	67 F 604		0-100	67 F 619		0-100	68 F 017		0-100	66 F 029	
0-150	67 F 605		0-150	67 F 620		0-150	68 F 018		0-150	66 F 030	
0-200	67 F 606	1.86	0-200	67 F 621	1.96	0-200	68 F 019	2.25	0-200	66 F 031	2.25
0-300	67 F 607		0-300	67 F 622		0-300	68 F 020		0-300	66 F 032	
0-500	67 F 608		0-500	67 F 623		0-500	68 F 021		0-500	66 F 033	

AC VOLTMETERS

0-15	67 F 665	2.99	0-15	67 F 670	3.09	0-15	68 F 022	3.38	0-15	66 F 034	3.38
0-50	67 F 666	3.99	0-50	67 F 671	3.09	0-50	68 F 023	3.38	0-50	66 F 035	3.92
0-150	67 F 667	3.53	0-150	67 F 672	4.16	0-150	68 F 024	4.46	0-150	66 F 036	4.46
0-300	67 F 668	4.12									

DC AMMETERS

0-1	68 F 972		0-1	68 F 973		0-1	68 F 025		0-1	66 F 070	2.25
0-5	68 F 974	1.86	0-5	68 F 975	1.96	0-5	66 F 043	2.25	0-5	66 F 071	2.25
0-10	67 F 650		0-10	67 F 656		0-10	66 F 044		0-10	66 F 072	
0-15	66 F 039		0-15	66 F 040		0-15	66 F 045		0-15	66 F 073	
0-25	68 F 976		0-25	68 F 977		0-25	66 F 046		0-25	66 F 074	
0-30	66 F 040		0-30	66 F 042		0-30	66 F 047		0-30	66 F 080	
0-30	67 F 651	1.86	0-30	67 F 657	1.96	0-30	66 F 026	2.25	0-30	66 F 082	2.25
20-0-20	67 F 652		20-0-20	67 F 658		20-0-20	68 F 027		20-0-20	66 F 083	
30-0-30	67 F 653		30-0-30	67 F 659		30-0-30	68 F 028		30-0-30		

DC VOLTMETERS

0-30	67 F 630		0-30	67 F 635		0-30	68 F 082		0-30	66 F 168	
0-30	67 F 631		0-30	67 F 636		0-30	68 F 083		0-30	66 F 188	2.25
0-10	67 F 632	1.86	0-10	67 F 637	1.96	0-10	68 F 084	2.25	0-10	66 F 189	2.25
0-15	66 F 090		0-15	66 F 169		0-15	66 F 092		0-15	66 F 190	
0-20	66 F 091		0-20	66 F 193		0-20	66 F 093		0-20	66 F 191	
0-30	66 F 092		0-30	66 F 194		0-30	66 F 094		0-30	66 F 192	
0-50	68 F 982		0-50	68 F 983		0-50	66 F 097		0-50		

AC AMMETERS

0-1	68 F 984		0-1	68 F 985		0-1	68 F 085	3.38	0-1	66 F 195	3.38
0-5	67 F 646	2.99	0-5	67 F 648	3.09	0-5	68 F 086		0-5		
0-10	67 F 647		0-10	67 F 649		0-10			0-10		

AC MILLIAMMETERS

0-500	67 F 640	2.99	0-500	67 F 643	3.09	0-500	68 F 029	3.38	0-500	66 F 212	3.38
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BATTERY, TEMPERATURE, VOLTAGE, CONTINUITY TESTERS AND ELAPSED-TIME METER

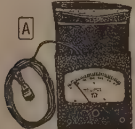
STERLING BATTERY TESTERS



Sterling pocket-size meters for general purpose testing of dry and wet cell batteries. Dependable Sterling testers are compact and easily portable. 2 1/4" diameter, 3/8" thick. Have nickel-plate finish. 5% calibrated accuracy. With lead. Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Scale	Batteries That Can Be Tested	EACH
65 F 082	16	1.5-90V	Radio, Hearing Aid	4.05
65 F 083	24	0-35A	#5 Dry Cells	2.25
66 F 611	38A	1.2-100V	Radio, Industrial	2.70
65 F 084	44	0-10V, 0-35A	Hot Shot, #6 Dry	2.76
65 F 085	45A	0-50V & 0-50A	Ignition, Indus.	3.45

J-B-T METERS



A New Type 32-JP-7 Temperature Tester. 4" scale, 0-650° F. Automatic ambient temp. compensation. 5/16" thermocouple. 3/4" x 5 1/2" x 2 1/2". With case. Shpg. wt., 3 lbs. 29.50

B Type 31-EX Elapsed Time Meter. Self-starting synchronous AC meter. 1/10 hr. steps to 9999.9 hrs. Automatic reset. 3/4" x 5 1/2" x 2 1/2". With case. Shpg. wt., 3 lbs. 15.95

AMF PRO-GLO

"CIRCUIT" TESTER



Handy tester for quick checks of continuity, shorts, grounds and opens. Dim light indicates poor connection exceeds 2 ohms. Pocket-size, only 5/16 x 3/4" diameter. Supplied complete with bulb and Type "AA" penlight battery. For checking dead circuits only. Shpg. wt., 2 oz. 69 F 618 99¢

G-C NEO-O-LITE

NEON GLOW TESTER



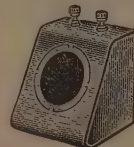
Convenient, versatile neon glow-type tester. Indicates voltages from 60 v. AC and 90 v. DC. 550 v. AC-DC. Excellent for finding "hot" AC leads, checking fuses and spark plugs, etc. Bulb is mounted in insulating holder. 5" insulated leads. 3 oz. 69 F 620 44¢

EMICO AC VOLTAGE TESTER



Handy, easy-to-use AC line-voltage tester. Detects low line voltage. 2-prong male plug fits all conventional outlets. 90° swivel head permits easier readings from any position. Range 0-150 volts. 2" meter. Metal case. Wt., 8 oz. 67 F 626 3.38

UNIVERSAL METER CASE



Front panel holds 2" meter. Knockout ring enlarges hole for 3" meter. 1-piece back and bottom attach with 2 screws. Red binding posts; banana jacks in heads. Black wrinkle finish. Size, 4 1/4" x 4 1/4" without posts. Wt., 1 1/4 lbs. 66 F 506 1.49

SITTLER LOW-VOLTAGE TESTER



Type T202. Handy low voltage tester indicates from 3-50 volts AC-D.C. Uses incandescent lamp. Has red and black leads with alligator clips for easy identification and use. Shpg. wt., 3 oz. 69 F 000 99¢

Type T203. Similar to the above voltage tester, but tests from 2 1/2-24 volts AC-DC. 69 F 001 99¢

ALLIED CAN SUPPLY A COMPLETE SELECTION OF PANEL METERS AND TESTING EQUIPMENT

Only the most widely used types are shown on these pages. Contact us for prices and other product information on any type of meter not listed—you will receive a prompt reply to your inquiry.

Simpson and Triplett Panel Meters

"WIDE-VUE" 3 1/2" AND 4 1/2" PANEL METERS

DC VOLTMETERS

Model 1327—3 1/2"			Model 1329—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
151	14.25	0-50	68 F 159	15.75	0-50
152		0-100	68 F 160		0-100
153		0-150	68 F 161		0-150
993		0-300	68 F 162		0-300
155		0-300	68 F 163		0-300

DC MILLIAMMETERS

Model 1327—3 1/2"			Model 1329—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
181	13.50	0-1	68 F 186	14.25	0-1
662		0-3	68 F 187		0-3
182		0-10	68 F 188		0-10
907		0-15	68 F 189		0-15
969		0-20	68 F 190		0-20
183	13.80	0-50	68 F 191	15.00	0-50
184		0-100	68 F 192		0-100
185		0-150	68 F 193		0-150
668		0-300	68 F 194		0-300

DC AMMETERS

Model 1327—3 1/2"			Model 1329—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
165	13.65	0-1	68 F 173	15.00	0-1
166		0-5	68 F 174		0-5
168		0-10	68 F 175		0-10
913		0-30	68 F 176		0-30
915	13.65	0-100	68 F 177	15.00	0-100
962		0-150	68 F 178		0-150
963		0-200	68 F 179		0-200
964		0-300	68 F 180		0-300
965	13.65	0-500	68 F 181	15.00	0-500
966	14.55	15-150	68 F 182	15.00	15-150
967	14.55	30-300	68 F 183	15.00	30-300

DC MICROAMMETERS

Model 1327—3 1/2"			Model 1329—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
68 F 074	22.50	0-15	68 F 075	24.60	0-15
68 F 191	20.10	0-25	68 F 192	22.20	0-25
68 F 192	17.10	0-50	68 F 193	18.45	0-50
68 F 193	15.60	0-100	68 F 194	17.40	0-100
67 F 673	17.25	25-0-25	67 F 674	18.60	25-0-25
68 F 194	15.75	50-0-50	68 F 195	17.50	50-0-50
68 F 197	14.40	100-0-100	68 F 198	15.90	100-0-100
68 F 919	13.65	500-0-500	68 F 920	14.40	500-0-500

AC VOLTMETERS

Model 1357—3 1/2"			Model 1359—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
68 F 921	12.60	0-15	68 F 922	14.40	0-15
68 F 923	13.05	0-50	68 F 924	14.40	0-50
68 F 154	13.95	0-150	68 F 162	15.00	0-150
68 F 156	13.95	0-300	68 F 164	15.00	0-300

AC AMMETERS

Model 1357—3 1/2"			Model 1359—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
68 F 167	12.45	0-5	68 F 175	14.55	0-5
68 F 169	12.45	0-10	68 F 177	14.55	0-10
68 F 076	12.90	0-25	68 F 077	15.00	0-25
68 F 172	12.90	0-50	68 F 180	15.00	0-50

AC MILLIAMMETERS

Model 1357—3 1/2"			Model 1359—4 1/2"		
Stock No.	EACH	Range	Stock No.	EACH	Range
68 F 925		0-50	68 F 926		0-50
68 F 927	12.45	0-100	68 F 928	14.55	0-100
68 F 929		0-500	68 F 930		0-500



**EASIEST
TO
READ...**

Reduce eye-strain—get accurate meter readings at a glance. "Wide-Vue" meters feature longer scales than conventional types. 3 1/2" meter has a scale more than 1/2" longer than conventional meters. All have one-piece, wrap-around plastic covers. Break-resistant covers provide maximum protection for meter faces against accidental blows or dropping. All DC meters, except 0-25 and 0-50 microammeters, have "self-shielded" core magnet movements, not affected by steel panel mounts or proximity of meter to magnetic field. 0-25, 0-50 DC microammeters have external magnet movements; AC meters have iron-vane movements. Accurate within ±2%. Av. shpg. wt., 1 lb.

METER DIMENSIONS

Model	Flange	Body Dia.	Depth Scale
1327	3.25x3.25"	2.73"	1.08" 3.04"
1329	4.00x4.68"	2.75"	1.08" 3.93"
1357	3.25x3.25"	2.73"	1.22" 3.04"
1359	4.00x4.68"	2.75"	1.20" 3.93"

ROUND AND RECTANGULAR STOCK PANEL METERS

AC MILLIAMMETERS

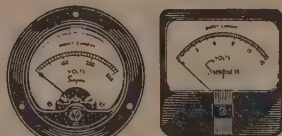
Model 155—2 1/2" Round			Model 157—2 1/2" Rect.		
Stock No.	EACH	Range	Stock No.	EACH	Range
67 F 072		0-50	67 F 022		0-50
67 F 073		0-100	67 F 023	11.55	0-100
67 F 074	11.55	0-250	67 F 024		0-250

AC VOLTMETERS

Model 155—2 1/2" Round			Model 157—2 1/2" Rect.		
Stock No.	EACH	Range	Stock No.	EACH	Range
67 F 078	11.70	0-5	67 F 028	11.70	0-5
67 F 079	11.70	0-10	67 F 029	11.70	0-10
67 F 080	12.15	0-50	67 F 030	12.15	0-50
67 F 083	12.90	0-150	67 F 033	12.90	0-150

AC AMMETERS

Model 155—2 1/2" Round			Model 157—2 1/2" Rect.		
Stock No.	EACH	Range	Stock No.	EACH	Range
67 F 087	11.55	0-1	67 F 037	11.55	0-1
67 F 090	11.55	0-10	67 F 040	11.55	0-10
67 F 093	11.85	0-50	67 F 048	11.85	0-50
67 F 094	11.85	0-50	67 F 043	11.85	0-50



Round Rectangular

METER DIMENSIONS

Model	Flange	Body Dia.	Mtg. Depth	Scale
155	2.69"	2.17"	1.39"	1.88"
157	2.37x2.37"	2.17"	1.45"	1.88"

Panel meters featuring the famous Simpson-External-Type Movement, fabricated for non-magnetic metal panels. The entire round or rectangular meter is self-contained. Models 155 and 157 have 100° dial arcs and are accurate within ±2% of full scale.

These AC meters use iron-vane type movements calibrated for 25-125 cps, except the AC milliammeters and ammeters, which are calibrated for use on 60 cps. Have self-contained multipliers.

These meters are in attractive black molded bakelite cases, with zero recessed adjustments. Have polished and shock-mounted jewels. Supplied complete with hardware and template. Be sure to include range and Model No. on all orders. Av. shpg. wt., 1 lb.

TRIPLETT UNIMETERS—WITH INTERCHANGEABLE RANGES

BASIC MOVEMENTS

DC MA and 0-50 DC μ A, DC μ A movement is used with DC dial components. Av. wt., 1 1/2 lbs.

Stock No.	Model	Size	Basic Movement	EACH
F 248	327-1	3 1/2"	0-1 DC MA—50 MV	12.10
F 253	327-2	3 1/2"	0-50 DC μ A—250 MV	17.50
F 282	420-1	4 1/2"	0-1 DC MA—50 MV	13.20
F 287	420-2	4 1/2"	0-50 DC μ A—250 MV	18.70

3 1/2" AND 4 1/2" UNIMETER KITS

A. One 3 1/2" 0-1 DC MA movement; dials 0-10, 0-100, DC MA; 0-1, 0-10, 0-25, DC μ A; 0-50 DC VM, 0-150 AC VM. Wt., 9 lbs.

FU 011.....32.50

B. Two 3 1/2" 0-1 DC MA basic movements

100 DC μ A; 0-150, AC VM; 0-1, 0-10, 0-25, 0-50, DC MA; 0-50 DC VM; 0-300 DC VM. Wt., 11 lbs.

FU 013.....54.50

C. Four 3 1/2" movements: three 0-1 DC MA; 0-50, DC MA; 0-150, AC VM; 0-1, 0-10, 0-25, 0-50, DC MA; 0-50 DC VM; 0-300 DC MA. Wt., 15 lbs.

FU 020.....109.50

D. Two 4 1/2" movements: two 0-1 DC MA; 0-50, DC MA; 0-150, AC VM; 0-1, 0-10, 0-25, 0-50, DC MA; 0-50 DC VM; 0-300 DC MA. Wt., 15 lbs.

FU 021.....113.90

DIAL COMPONENTS

All dial components are used with 0-1 DC MA basic movement except * for use with 0-50 DC μ A basic movement. Accuracy well within 2% full scale. 1100 V/VA film type, 5 Rectifier type 500 V/VA. Shpg. wt., 2 oz. When ordering, specify dial range, size and stock number.

DIAL COMPONENT RANGES

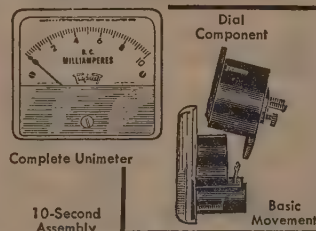
0-1 DC MA	0-500 DC MA	0-25 DC Ammeter
0-5 DC MA	0-10 DC Volts†	0-50 DC Ammeter
0-10 DC MA	0-25 DC Volts†	0-10 AC Volts§
0-15 DC MA	0-50 DC Volts†	0-150 AC Volts§
0-25 DC MA	0-150 DC Volts†	0-300 AC Volts§
0-50 DC MA	0-300 DC Volts†	0-50 DC μ a*
0-100 DC MA	0-500 DC Volts†	0-100 DC μ a*
0-150 DC MA	0-1 DC Ammeter	0-200 DC μ a*
0-200 DC MA	0-5 DC Ammeter	0-500 DC μ a*
0-250 DC MA	0-10 DC Ammeter	.....
0-300 DC MA	0-15 DC Ammeter	.....

3 1/2"	4 1/2"	Scale Values (Range)
69 FF 249	69 FF 283	0-1—500 DC milliams
69 FF 250	69 FF 284	0-10—500 DC amps
69 FF 251	69 FF 285	0-1—50 DC amps
69 FF 252	69 FF 286	0-10—300 AC volts
69 FF 255	69 FF 288	0-50—500 DC microamps*

EACH.....2.75

Unimeter Stand. Not illus. Holds meters at correct angle. 5-way terminals fit plain wire, alligator clips, etc. 4 3/4x6 1/2 base. 1 1/2 lbs.

69 F 289.....3.30



Complete Unimeter

10-Second Assembly

Dial Component

Basic Movement

In 10 seconds... the precision meter of your choice. 2 basic movements plus interchangeable face plates give you a complete range of meters. Unimeter consists of separate sections (movement and dial component) which can be snapped together instantly for exact scale range you need. Just select the desired dial component and slide it into the movement. No soldering or wiring necessary. Two parts lock together with thumbscrew on back. Check these features: self-shielded Bar-Ring movements; AC and DC linear scales; extreme accuracy; dust-proof construction; error-proof assembly; instant conversion; standard mounting. 4 1/2" dials have mirror scales for parallax-free readings. Movements and dials are individually calibrated to 1% accuracy.

Be Sure to Include Range and Model No. on Meter Orders

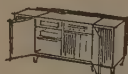
Electrical Cords, Fixtures and Accessories

POPULAR C-B-C MULTIPLE-OUTLET BOXES

Now Available With Either Circuit Breakers or Fuses

as low as

\$3.75



For Hi-Fi, Hobbyist, Ham, Workshop

Heavy-duty outlet boxes for home, workbench or lab. All are rated 15 amps at 115 v.; have 10-ft. cord, on-off switches, and brown hammer-tone metal cases with mounting ears. Units with CB in Type No. have built-in pushbutton-reset circuit breaker in plug. GD in Type No. indicates 3-wire grounding-type outlets and plug; all others are 2-wire. MO types have pilot light. SS-CB and SS each have 4 individually switched outlets. All are 13x2 1/4x1 1/2" except MO-3, which is 5x2x1 1/4".

CIRCUIT-BREAKER TYPES

Stock No.	Mfr's Type	Out-lets	Wt. Lbs.	EACH
51 N 197	MO-GD-CB	6	2 3/4	10.29
51 N 198	MO-CB	6	2 3/4	8.57
51 N 199	SS-CB	4	2 3/4	8.57

FUSED TYPES

Stock No.	Mfr's Type	Out-lets	Wt. Lbs.	EACH
50 N 948	MO-GD	6	2 3/4	7.95
50 N 949	MO	6	2 3/4	6.25
50 N 950	SS	4	2 3/4	6.25
50 N 951	MO-3	3	1 1/2	3.75

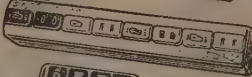


MO-CB

MO

MO-GD-CB

MO-GD



SS

SS-CB

MO-3



BELDEN WIRE POWER EXTENSION CORDS

Heavy-duty 3-wire cords—use with power tools, hedge trimmers, etc. Molded 3-prong plug and receptacle. U.L. Listed. Yellow.



PHENOLIC-TYPE SOLDERLESS WIRE CONNECTORS

Handy solderless wire connectors. Simply strip two ends, push into connector and screw cap down. No tools

are required. Wires cannot be pulled out after insertion into connector. Made of the finest grade of phenolic. U. L. Listed. Av. shpg. wts.: pkg. of 25, 2 oz.; pkg. of 100, 8 oz.

Wire Size	Stock No.	Pkg. of 25	Stock No.	Pkg. of 100
16-18	51 N 236	.27	51 N 239	.89
14-18	51 N 237	.30	51 N 240	1.05
12-18	51 N 238	.45	51 N 241	1.65

Stock No.	Length	Gauge	Lbs.	EACH
51 N 181	25 ft.	18	1 1/2	1.83
51 N 182	50 ft.	18	3	3.68
51 N 183	100 ft.	18	6	5.88
51 N 184	25 ft.	16	2	2.54
51 N 185	50 ft.	16	4	4.55
51 N 186	100 ft.	16	8	8.08
51 N 187	25 ft.	14	4	4.36
51 N 188	50 ft.	14	8	7.90
51 N 189	100 ft.	14	15	14.43



Vinyl plug on one end and flat, vinyl 3-way receptacle on other

Extremely durable, 2-wire vinyl-covered extension cords. No. 18 wire. Choice of 9 or 6-ft. lengths in brown or ivory.

ALL-VINYL TRIPLE EXTENSION CORDS

- Will Not Break, Chip or Crack
- Resist Abrasion, Grease, Oil, Acid
- Underwriters' Laboratories Listed

Stock No.	Length	Color	Wt.	EA.
51 N 232	9 ft.	Brown	4 oz.	41¢
51 N 233	9 ft.	Ivory	4 oz.	43¢
51 N 230	6 ft.	Brown	3 oz.	33¢
51 N 231	6 ft.	Ivory	3 oz.	36¢

ELECTROSTRIP FLEXIBLE OUTLET KIT

U. L. Listed



No Wiring Needed

Unique 4-ft. electrical strip for installation on baseboard, wall, workbench, etc. Includes 3 outlets which may be moved to any point along strip. Extremely easy to install—no wiring or soldering needed. Has 12" cord with plug for feeding power from regular AC wall outlet to the outlet strip. Rated at 15 amps at 125 volts AC. Wt., 1 1/2 lbs.

52 NX 696.....EACH 2.62

EXTRA OUTLETS. For outlet strip, above.

Shpg. wt., 3 oz.

52 N 697.....EACH .37

TROUBLE LAMP BARGAINS



WITH 2 OUTLETS

as low as

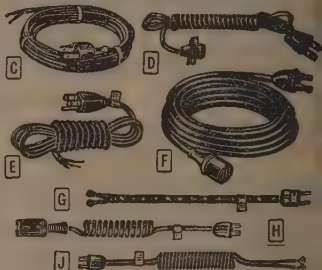
\$1.69

Rugged units let you extend light and power to any convenient point—invaluable for service work. Each has heavy-insulation cable. Hard rubber handle houses switch and 2 outlets to power tools. Bulb protected by reflector guard. Switched outlets supply up to 600 watts at 110-125 v. AC. DC, less power consumption of bulb. Supplied less bulb. Av. wt., 3 lbs.

50 N 947, With 50-ft. Cable.....2.29

50 N 946, With 25-ft. Cable.....1.69

BELDEN REPLACEMENT, EXTENSION AND TV CORDS



LIGHT-DUTY REPLACEMENT CORDS. Flexible rubber-covered cords with unbreakable vinyl plugs at one end, other end stripped. All are 2-conductor except *3-conductor with 3-prong plug. Cover black except †brown, §gray. U. L. Listed. Wt., 3/4 lb.

Stock No.	Type	Fig.	Length	Gauge	EA.
50 N 925	17126S†	C	6 ft.	SP1 18	37¢
50 N 926	17129S†	C	9 ft.	SP1 18	44¢
50 N 927	17330S	C	10 ft.	SJ 16	88¢
50 N 928	17308S	C	8 ft.	SJ 16	69¢
50 N 929	17206S†	C	6 ft.	SV 18	52¢
50 N 930	17408S†	E	8 ft.	SJ 18	88¢

D MODEL 8895 TV LINE CORD. 6-ft. length with 2-conductor 18-gauge brown vinyl cord and plastic plug. 1 lb.

50 N 944.....EACH 37¢

F HEAVY-DUTY EXTENSION CORDS. Flexible 2-wire cords with vinyl plug, plastic connector, 17395S and 13975S ideal for yard extensions. Cover: *gray rubber, †black rubber, §red vinyl. U. L. Listed.

Stock No.	Type	Length	Gauge	Lbs.	EA.
50 N 931	17270C*	20'	SV 18	1	1.10
50 N 932	17361S†	10'	SJ 16	1	.94
50 NX 933	17395S†	50'	SJT 16	3 3/4	3.50
50 NX 934	17397S†	100'	SJT 16	6 3/4	6.84

REPLACEMENT CORDS FOR HEATER-TYPE APPLIANCES. For 125 volts. Have rubber wall plugs, black neoprene covered and self-coiling (extend to 6 feet) except *asbestos cotton wrapping (7 feet). Types without appliance plugs have terminals for screws. †on-appliance end. 1/2 lb.

Stock No.	Type	Fig.	Pin Spacing	A.	EA.
50 N 935	17886S	H	1/2", slotted	10	.97
50 N 936	17887S	H	1/2", w/o slot	10	.99
50 N 937	17888S	H	1 1/2"	15	1.07
50 N 938	17836S	J	None	10	.76
50 N 945	17272S	G	None	15	.73

Selected Electrical Accessories

ELECTRICAL TAPE

FACTION BRAND TAPE

FACTION TAPE. Popular standard-width tapes. 1 for radio, electrical, and shop uses. High, long-wearing fabric base resists abrasion and weathering. Makes insulated wrappings. **Wt., 7 oz.**

N 610, 3/4"x13'	PER ROLL 15¢
N 611, 3/4"x32'	PER ROLL 27¢
N 612, 3/4"x68'	PER ROLL 52¢
N 620, 3/4"x60'	PER ROLL 25¢



SCOTCH TAPE. Strong, black vinyl tape—a favorite with electricians and radiomen. Sticks and conforms to irregular surfaces. Clings tightly to form insulated wrappings. High-dielectric strength. 3/4" is .007", 7000 v. rating; 1/2" type is .010", 10,000 v. rating. 6 oz.

N 614, 3/4"x44'	PER ROLL 86¢
N 623, 1/2"x108'	PER ROLL 1.75

SCOTCH PLASTIC TAPE

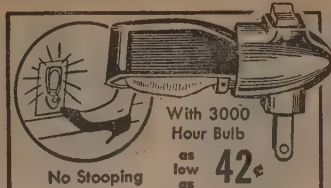
SCOTCH TAPE. Famous Scotch electric-backed electrical tape. .007" thick. Has 1000 volt dielectric strength. Molds easily to irregular surfaces after heating neat and compact insulated wrappings. Highly resistant to chemicals, abrasion, oil, salt water, and weathering. Av. shpg. wt., per roll, 6 oz.

N 613, 3/4"x20'	PER ROLL 47¢
N 616, 3/4"x66'	PER ROLL 1.28



SCOTCH TAPE. All-weather, 8.5-mil plastic-backed electrical tape. Makes splice wrapping extremely easy in cold weather, yet retains its quick application at normal temperatures. Highly resistant to abrasion, oil, moisture, flame, and weathering effects. Av. shpg. wt., per roll, 6 oz.

N 700, 3/4"x66'	PER ROLL 1.49
-----------------------	---------------



No Stoop

TOUCH-A-MATIC NITE-LITE

Features "Touch-A-Matic" switch for outstanding convenience; works on slightest pressure—can be pushed, flipped or kicked. No need to bend or stoop for lights plugged into baseboard outlets. Supplied with long-life, 3000-hour bulb. Ideal for bedrooms, nurseries, bathrooms, basements, stairways, etc. Modern streamlined design hugs wall. Adjustable shade rotates full 360°. 3 1/2" long. For 115 v. AC Shpg. wt., 4 oz.

50 N 904, Ivory	EACH 44¢
50 N 905, Brown	EACH 42¢

REPLACEMENT BULB, 4 oz. **E 548**

With 3000
Hour Bulb
as low as
42¢

INSULATED COPPER STAPLES

For holding cords in place. Off-white colored insulation. 7 oz.

50 N 914, 3/4"x1/2"	BOX OF 50 21¢
50 N 915, 3/4"x3/4"	BOX OF 50 21¢

G-C CABLE CLAMPS

Nickel-plated clamps for cables from 1/8" to 1/2" dia. All have No. 6 mounting hole. 25 per pkg, except *20 per pkg., \$15 per pkg. Av. wt., per pkg., 4 oz.

Stock No.	Mfr's Type	Fit Cable	PER PKG.
51 N 215	H502F	1/8" to 3/8"	36¢
51 N 216	H503F*	3/8" to 1/2"	
51 N 217	Z7243†	1/8" to 3/8"	
51 N 218	H506†	1/8" to 1/2"	

NEW Fasco Electronic Lighting Controls

CONTINUOUS DIMMER CONTROL



as low as
\$10.98

Install it in Minutes with a Screwdriver!

Provides complete, gradual control of light intensity. Turn dial for bright, moderate or dim lighting—push knob to turn light off-on. Ideal for festive occasions, TV, night light, etc. Saves power—increases lamp life 10 times in dim position. Replaces any std. switch; uses existing wall plate. Fused. Choice of 3 models. All are for 115 v. AC, incandescent lamps. LC-8722 and -8721 may also be used with dimming-ballast fluorescents. 1 lb.

51 N 205, LC-8724, 600 w.	10.98
51 N 204, LC-8722, 600 w.	26.65
51 N 203, LC-8721, 300 w.	16.50

"HI-LO" DIMMER SWITCH

- Easy to Hook Up
- Have Soft or Bright Light at the Flick of a Switch,
- Fully Fused



Similar to controls above, but has "HI" position for reading, "Lo" position for TV or night light, and center off-off. Rocker-type switch gives sure, easy operation. Easy to install. Choice of 600 or 300-watt models. For 115 v. AC, incandescent lamps only. Wt., 4 oz.

51 N 207, LC-8702, 600 w.	2.98
51 N 206, LC-8701, 300 w.	2.35



VALUES IN HANDY ELECTRICAL ACCESSORIES

TOUCH-A-MATIC WALL SWITCH. Silent, feather-touch switch with rocker-arm that blends into wall plate. Has both assure and screw terminal connections for extra common terminal. SPST action. Amps @ 125 v. U.L. Listed. 5 oz.

N 823, Ivory

N 824, Brown

As above, but 3-way action. Two switches can control lights from 2 different locations. U.L. Listed. 4 oz.

N 910, Ivory

N 911, Brown

DUPLEX WALL OUTLET. Parallel ground, 3-wire type. Rated 15 amps @ 125 v. U.L. Listed. Shpg. wt., 5 oz.

N 825, Ivory

N 826, Brown

FLUSH TOGGLE SWITCH. Std. SPST action. Rated @ 10 amps, 125 v. or 500 v. 250 v. U.L. Listed. 4 oz.

N 953, Ivory

N 952, Brown

FLAT RUBBER SIDE-OUTLET PLUG. Has side outlet for wire, prongs molded into vinyl, insulated binding screws. 15 amps @ 125 v. U.L. Listed. 4 oz.

N 060

RUBBER-HANDLE PLUG. Unbreakable soft rubber. Approved for power tools. Excellent for use with 52 N 603 (right, below) receptacle for line cord extensions. U.L. Listed. Shpg. wt., 4 oz.

51 N 061

BAKELITE PLUG. With handy finger grip. Cap size. 1 1/2"x1 1/2"x1 1/2" deep. Brown. U.L. Listed. Wt., 4 oz.

51 N 062

RUBBER CUBE TAP. Spring-action, 3-way outlet of one-piece soft rubber. U.L. Listed. Wt., 6 oz.

51 N 063

JIFFY AUTOMATIC PLUG. No wire stripping—just insert through cap. Sure-grip "needles" make positive connection through insulation. For POSJ cable only. U.L. Listed. Shpg. wt., 5 oz.

51 N 064

FLAT RUBBER PLUG. Has non-breakable molded rubber cap. Its narrow construction makes cap ideal for use with multiple AC receptacles similar to Fig. L above. Easily disassembled. Screw terminal wiring. Rated 15 amps @ 125 v., 10 amps @ 250 v. U.L. Listed. Wt., 5 oz.

51 N 065

MORSE MIDGET CORD-CONNECTOR SET. Two-contact pull-apart type with plug and matching receptacle. For connecting line cords, phono motors, relays, etc. Knurled edges. 1 1/4"x3/8" dia. 2 oz.

52 N 626

ACADEMY 3-WAY OUTLET. Two conductor type connects up to 3 standard power cord plugs. Plastic. Rated 15 amps @ 125 v., 10 amps @ 250 v. U.L. Listed. 8 oz.

51 N 067, Mahogany

51 N 066, White

RUBBER LINE-CORD RECEPTACLE. Pull-handle type with easy-gripping knurled body. Has cable clamp. Rated 15 amps @ 125 v. 1 1/4" dia. U.L. Listed. 3 oz.

52 N 603

PARALLEL GROUND ADAPTER. Adapts 3-prong appliance plugs for standard 2-prong AC outlets, 15 amps @ 125 v. 3" wire, grounding lug. U.L. Listed. 3 oz.

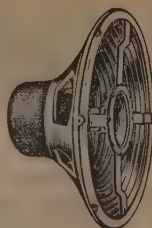
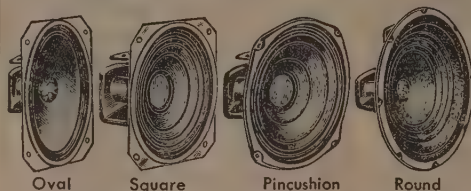
52 N 669

FUSED PLUG. Protects unfused equipment. Fuses for each side of line fit snugly in receptacles. Easy to remove. Interchangeable with std. AC plug. U.L. Listed. Less 3AG fuses. 3 oz.

52 N 648

Speakers by Quam, Jensen, Fedtro and Fourjay

QUAM GENERAL-PURPOSE REPLACEMENT SPEAKERS



QUAM

EXTENDED-RANGE SPEAKERS AND TWEETERS

- Economy Models
- Standard Sizes
- Excellent for Home Hi-Fi

8A4CO
12A6CO

8A10x

Alnico V magnets. Baked enamel finish. *Very shallow frame. Voice coil imp., 3.2 ohms except *speakers for transistor application, impedance indicated by digits following Z in Type number.

Stock No.	Type	Shape	Size	Watts	Magnet	Lbs.	EACH
59 D 424	22A06Z8	Round†	2 1/4"	25	45 oz.	1/4	2.79
59 D 425	22A06Z100	Round†	2 1/4"	25	45 oz.	1/4	3.09
59 D 422	25A07	Square	2 1/2"	2.0	65 oz.	1/4	2.35
59 D 426	27A05Z12	Round†	2 3/4"	25	55 oz.	1/4	2.76
59 D 453	3A07	Square*	3 1/2"	2.5	85 oz.	1/2	2.35
59 D 417	4A05	Square	4"	2.5	55 oz.	1/4	1.73
59 D 421	35A05	Oval	3x5 1/2"	2.0	55 oz.	1/4	1.47
59 D 434	4A07	Square*	4"	3.0	65 oz.	1/2	2.53
59 D 435	4A1	Square	4"	3.0	1.0 oz.	3/4	2.90
59 D 436	4A15	Square	4"	3.0	1.47 oz.	3/4	2.77
59 D 454	46A07	Oval*	4x6 1/2"	3.5	65 oz.	3/4	2.79
59 D 460	46A1	Oval	4x6 1/2"	3.5	1.0 oz.	1	3.01
59 D 461	46A15	Oval	4x6 1/2"	3.5	1.47 oz.	1	3.23
59 D 427	48A2	Oval*	4x8 1/4"	4.5	1.4 oz.	1	4.67
59 D 484	410A2	Oval	4x10 1/4"	6.0	1.4 oz.	1 1/4	5.26
59 D 437	5A07	Pincushion*	5"	3.5	65 oz.	3/4	2.65
59 D 438	5A1	Pincushion	5"	3.5	1.0 oz.	1	2.85
59 D 439	5A15	Pincushion	5"	3.5	1.47 oz.	1	3.09
59 D 478	52A1	Pincushion	5 1/4"	4.0	1.0 oz.	1	2.91
59 D 433	52A21	Pincushion	5 1/4"	4.0	2.15 oz.	1 1/4	3.56
59 D 405	52C10	Pincushion	5 1/4"	10.0	10.0 oz.	2 1/2	5.85
59 D 455	57A1	Oval	5x7"	5.0	1.0 oz.	1	3.24
59 D 447	57A21	Oval	5x7"	5.0	2.15 oz.	1 1/4	3.97
59 D 440	6A1	Pincushion	6 1/2"	5.0	1.0 oz.	1	3.12
59 D 441	6A15	Pincushion	6 1/2"	5.0	1.47 oz.	1	3.38
59 D 442	6A21	Pincushion	6 1/2"	5.0	2.15 oz.	1 1/4	3.79
59 D 445	6A31	Pincushion	6 1/2"	6.0	3.16 oz.	1 1/2	4.47
59 D 462	69A2	Oval*	6x9"	8.0	1.4 oz.	1 1/2	5.41
59 D 463	69A3	Oval	6x9"	10.0	3.2 oz.	1 3/4	5.81
59 D 428	69A1	Oval*	6x9"	6.0	1.2 oz.	1 1/2	3.53
59 D 407	69A1S	Oval	6x9"	6.0	1.2 oz.	2 1/2	5.00
59 D 464	7A31	Pincushion	7"	9.0	3.16 oz.	2	5.14
59 D 443	8A21	Pincushion	8"	7.0	2.15 oz.	1 1/2	4.56
59 D 444	8A31	Pincushion	8"	9.0	3.16 oz.	2 1/2	5.29
59 D 480	10A6A	Round	10"	12.0	6.8 oz.	3 1/2	6.53
59 DX 533	12A6A	Round	12"	14.0	6.8 oz.	4 1/2	9.38

QUAM WEATHER-PROOFED OUTDOOR SPEAKERS

Quam speakers with the exclusive "Humi-Gard" cone of plastic impregnated fiber fabric. Specially designed to outlast ordinary moisture-proofed cones. Voice coil impedance, 3.2 ohms.

Stock No.	Type	Size	Shape	Watts	Magnet	Lbs.	EACH
59 D 432	3A07OT	3 1/2"	Square	2.5	.65 oz.	1/2	2.35
59 D 467	4A1OT	4"	Square	3	1.0 oz.	1	2.73
59 D 431	5A15OT	5"	Pincushion	3.5	1.47 oz.	1	3.15
59 D 496	6A15OT	6"	Pincushion	5	1.47 oz.	1 1/4	3.53

QUAM 45-OHM INTERCOM SPEAKERS

PM speakers for replacement in intercommunications systems.

Stock No.	Type	Size	Shape	Magnet	Shpg. Wt.	EACH
59 D 481	3A07Z45	3 1/2"	Square	.65 oz.	1/2 lb.	2.50
59 D 482	4A1Z45	4"	Square	1.0 oz.	3/4 lb.	2.85
59 D 483	5A1Z45	5"	Pincushion	1.0 oz.	1 lb.	3.00

ALLIED SPEAKER REPAIR SERVICE

Hi-Fi Speaker Repair. Includes replacing cone, gasket, voice coil, spider, dust cover. Ship speaker by insured parcel post or express. Allow 30 days return delivery.

8" Speaker Repair... 7.50

12" Speaker Repair... 11.25 15" Speaker Repair... 15.00

Standard Speaker Repair. Speakers rebuilt. Additional charges for field-coil repair or replacement: \$1.25 for 4" 9", \$2.25 for 10" 12". Field coils welded into frames cannot be replaced. Ship speaker prepaid. Send remittance (and postage) with order. Allow 30-45 days return delivery.

Size	Service	Size	Service	Size	Service
4" to 6"	2.15	14" to 15"	9.00	5x7" oval	2.80
6 1/2" to 9"	3.00	4x6" oval	2.65	6x9" oval	3.10
10"	3.50	11" to 12"	6.00		

JENSEN "CONCERT SERIES" SPEAKERS



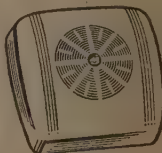
Jensen's highly popular "Concert Series" PM speakers. DP-Alnico V magnets for exceptionally high efficiency and distinct reproduction. Cones are selected for maximum frequency response characteristics. Rigid frame maintains proper alignment of voice coil and magnet structure. All speakers listed below have 3" ohm voice coil impedance. All except P4-W have bracket for mounting matching transformer.

Stock No.	Mfr's Type	Size	Shape	Magnet	Watts	Wt. Lbs.	EACH
59 D 498	P4-W	4"	Square	1.0 oz.	4.5	1 1/2	2.56
59 D 499	P5-W	5"	Square	1.0 oz.	5.0	1 3/4	2.62
59 D 486	P5-V	5"	Square	1.47 oz.	5.5	1 3/4	2.85
59 D 506	P6-W	6"	Square	1.0 oz.	6.0	2	2.88
59 D 487	P6-V	6"	Square	1.47 oz.	6.5	2	3.20
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59 D 492	P69-V	6x9"	Oval	1.47 oz.	7.5	2 1/2	4.26
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59 D 490	P8-T	8"	Square	2.5 oz.	10.0	2 3/4	4.94
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D 472	5x7"	Oval	1.0 oz.	5.0	1	1.60
D 471	6x9"	Oval	1.47 oz.	8.0	$1\frac{1}{4}$	2.15
D 493	6x9"	Oval	1.47 oz.	8.0	$1\frac{1}{4}$	2.30
D 416	16x9"	Oval	1.47 oz.	8.0	$1\frac{1}{4}$	2.15
D 470	8"	Round	2.15 oz.	9.0	$1\frac{1}{2}$	2.30
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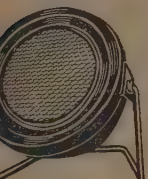


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9 D 410	SP4RV	4"	Square	$\frac{1}{2}$	2.06
9 D 413	SP46RV	4x6"	Oval	$\frac{1}{2}$	2.53
9 D 411	SP5RV	5"	Pincushion	$\frac{1}{2}$	2.23
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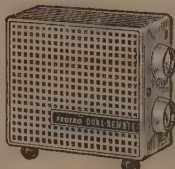
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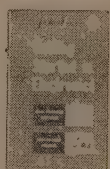
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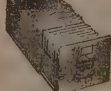
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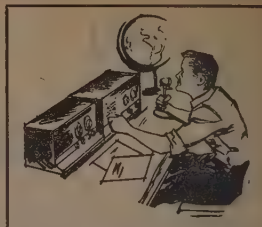
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Allied's Own Knight Fringe-Area VHF Antennas

KNIGHT TOP-QUALITY FRINGE-AREA ANTENNAS OFFER THESE OUTSTANDING FEATURES—

DUO-TWIN DRIVE



Two half-wave dipoles are twin-driven on the low band. Two three-element collinear dipoles are twin-driven on the high band—equal to six half-wave driven elements.



SHARPER COLOR OR BLACK AND WHITE RECEPTION

Enjoy the best color reception your color set can offer, even in fringe areas.

NO-TILT SADDLE BRACKET

For perfect horizontal mounting of the boom



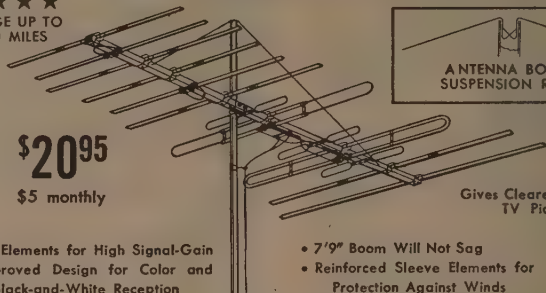
★★★
RANGE UP TO
150 MILES

\$20⁹⁵
\$5 monthly

- 26 Elements for High Signal-Gain
- Improved Design for Color and Black-and-White Reception

Allied's most popular high-gain, twin-driven VHF antenna. Equals or surpasses the performance of many higher-priced arrays. Provides superior reception in color and black-and-white up to 150 miles. Has 21 elements on high band and 5 elements on low band to provide extremely high sensitivity on all VHF channels, 2 through 13. Rugged all-aluminum construction moderates effects of strong winds, storms and heavy icing. Gold-corodized finish (even on the brackets) offers greater resistance to weather corrosion—considerably lengthens the antenna's life. Sag-proof suspension system features a compact, heavy-duty square boom with sturdy braces—much stronger than ordinary tubular construction. "Snap-

KNIGHT 4-STAR DEEP-FRINGE ANTENNA



Gives Clearer, Stronger TV Pictures

- 7'9" Boom Will Not Sag
- Reinforced Sleeve Elements for Protection Against Winds

out" design makes assembly amazingly easy. Just swing elements into place and tighten. "No-tilt" saddle bracket guarantees perfect horizontal mounting of boom. Heavily reinforced sleeve elements at point of snap-out action give extra protection against effects of high winds, etc. Less mast and 300-ohm twin-line. Shipped express or truck only. Shpg. wt., 8½ lbs.
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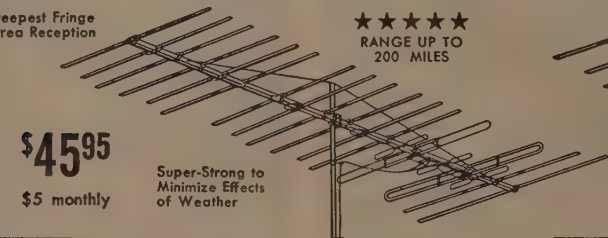
KNIGHT 5-STAR SUPER-FRINGE ANTENNA

Deepest Fringe Area Reception

★★★★★
RANGE UP TO
200 MILES

\$45⁹⁵
\$5 monthly

Super-Strong to
Minimize Effects
of Weather



TRIPLE-TAPER ELEMENTS

1. Triple at Stress Ends
2. Double at Center
3. Single at Ends



Boom Suspension Rods
for 8 Times More Support

- 40 Elements and Duo-Twin Drive for Remarkably Increased Gain
- Improves Color TV Reception As Well As Black-and-White

- Split Boom—13' 10" Long and 1" Square
- Gold-Corodized for Much Longer Life
- Reinforced with Triple U-Bolt Saddles
- Wonderfully Easy to Assemble

Even in the deepest fringe areas, you can receive high-quality pictures in color or black-and-white with this amazing, super-powered 40-element antenna. Has 33 high, 7 low-band elements for greatest gain. "Duo-Twin Drive" gives performance equal to six half-wave driven elements—provides remarkably increased gain. Ruggedly built, this super-fringe antenna resists high winds, icing, and general storm conditions. Check these construction features: split boom, reinforced with triple U-bolt saddles; tough "Lock-Tite" no-tilt bracket; suspension rods for eight times greater boom support than ordinary bracing; triple-tapered elements with three-wall-thickness at bracket end. Gold-corodized finish works against corrosion—you get better efficiency. Less mast, 300-ohm twin line. Shipped express or truck only. Shpg. wt., 15½ lbs.
92 CU 267, \$5 Monthly. 45.95

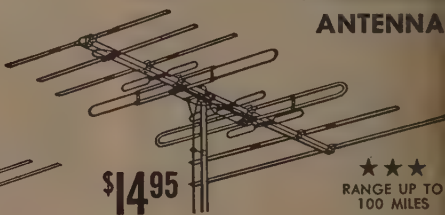
STACKING KIT FOR 5-STAR SUPER-FRINGE ANTENNA

For stacking two 5-star super-fringe antennas in order to obtain even greater gain in extreme fringe areas. Shpg. wt., ½ lb.
92 CX 079. 1.47

FRINGE-AREA CORODIZED ANTENNA

★★★
RANGE UP TO
100 MILES

\$14⁹⁵



- 19 Elements—15 on High Band, 4 on Low for Greater "Pull-In" Power
- Excellent for Color and Black-and-White
- Elements Are Completely Gold Corodized

Enjoy superior fringe-area reception with this broadband, efficiently engineered Knight antenna. Its multiple directors and dual reflectors for high front-to-back ratio provide increased sensitivity and extra-sharp directivity on channels 2-13. All elements are completely gold corodized to resist corrosion. Special-design "Lock-Tite" saddle bracket ensures permanent, horizontal mounting of the boom—guarantees easy, no-tilt installation. One-inch-square boom construction with vertical and horizontal plane surfaces, gives maximum strength for protection against heavy ice and wind loads. Supplied less mast and 300-ohm twin line. Shipped express or truck only. 7 lbs.
91 CU 333. 14.95

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91 CU 334. 13.95

3 AND 4-STAR ANTENNA STACKING KITS

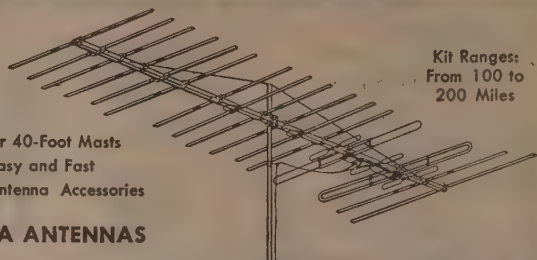
GOLD-CORODIZED TYPE. For stacking two corodized antennas. Shpg. wt., ½ lb.
91 CX 335. 1.47
NON-CORODIZED TYPE. For stacking two non-corodized antennas. Shpg. wt., ½ lb.
91 CX 336. 1.18

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ALLIED'S MONEY-SAVING KNIGHT TV ANTENNA KITS—COMPLETE WITH MAST AND ALL ACCESSORIES

Fine for Color As Well As Black-and-White Reception
Complete—Nothing More to Buy

- Choice of 20 or 40-Foot Masts
- Installation Is Easy and Fast
- Top-Quality Antenna Accessories



Kit Ranges:
From 100 to
200 Miles

KITS FEATURE KNIGHT FRINGE-AREA ANTENNAS

You make sure that you get the best TV reception possible, and you save time and money with a complete, value-packed Knight antenna kit. Kit prices are less than the total cost of components purchased separately. Kits for "Super-Fringe," "Deep-Fringe," and "Fringe" areas are available with 20 or 40-foot steel "slip-up" masts. Distance to TV stations determines which antenna to use; local terrain (hills, trees, all buildings, etc.) determines which mast

height to use. The fully automatic AR-22 rotator accurately aims the antenna for best reception of any station. All kits are complete with Knight weather-resistant antenna; steel mast; all-angle mount; guy wire; 100-ft. twin line; 50-ft. ground wire; guy wire; ground rod; twin-line lightning arrester; all hardware; and detailed instructions. Rotators are for operation from 110-120 volts, 60 cycle AC. All kits and antennas are shipped express or truck only.

★★★★★ SUPER-FRINGE KNIGHT ANTENNA KITS

RANGE UP TO 200 MILES

include Knight's deluxe 5-Star antenna (described on facing page) with extra-strength, triple-walled elements, and all accessories

and instructions for making quick, easy installation. The "Super-Fringe" antenna is gold-corroded to prevent corrosion.

Stock No.	Type	Description	Lbs.	EACH
23 CZ 056-4	E-20	Kit with 20-ft. Mast Plus Rotator Package	67	93.50
23 CZ 057-3	E-20L	Kit with 20-ft. Mast; Less Rotator Package	39	52.95
23 CZ 058-4	E-40	Kit with 40-ft. Mast Plus Rotator Package	91	99.95
23 CZ 059-3	E-40L	Kit with 40-ft. Mast; Less Rotator Package	67	64.50

★★★★★ DEEP-FRINGE KNIGHT ANTENNA KITS

RANGE UP TO 150 MILES

include the efficient Knight 4-Star gold-corroded antenna for maximum-quality

TV reception on channels 2 through 13. Plus all installation accessories and instructions.

Stock No.	Type	Description	Lbs.	EACH
23 CZ 060-4	C-20	Kit with 20-ft. Mast, Antenna plus Rotator Package	55	69.95
23 CZ 061-3	C-20L	Kit with 20-ft. Mast and Antenna; Less Rotator Package	31	29.95
23 CZ 062-4	C-40	Kit with 40-ft. Mast, Antenna plus Rotator Package	82	78.50
23 CZ 063-3	C-40L	Kit with 40-ft. Mast and Antenna; Less Rotator Package	58	38.95

★★★ FRINGE KNIGHT ANTENNA KITS

RANGE UP TO 100 MILES

include the top-quality Knight 3-Star gold-corroded antenna for outstanding perform-

ance in fringe areas. Plus all installation accessories and easy instructions.

Stock No.	Type	Description	Lbs.	EACH
23 CZ 064-4	B-20	Kit with 20-ft. Mast, Antenna plus Rotator Package	57	64.50
23 CZ 065-3	B-20L	Kit with 20-ft. Mast and Antenna; Less Rotator Package	30	24.95
23 CZ 066-4	B-40	Kit with 40-ft. Mast, Antenna plus Rotator Package	77	72.95
23 CZ 067-3	B-40L	Kit with 40-ft. Mast and Antenna; Less Rotator Package	53	33.50

ALLIED STOCKS EVERYTHING IN ANTENNAS

Depend on Allied for all your antenna needs. Whether your location requires a simple indoor type or a more elaborate fringe-area array, you'll find just the an-

tenna you need listed in these pages. Our stocks include a complete selection of all necessary installation accessories as well as every kind of antenna.

EACH KIT INCLUDES:

Tower Package

Knight Fringe-Area Antenna and Easy-Locking 20' or 40' "Slip-Up" Mast

Plus All These Accessories—

All-Angle Mount; Guy and Ground Wire; Twin Line; Arrester; All Hardware; Instructions

OPTIONAL ROTATOR PACKAGE

AR22 Control

100' Cable

10-ft. Mast

AR22

Popular CDR AR22 rotator lets you "aim" your antenna for clearest TV reception. Just set the pointer—rotator does the rest. Package also includes an additional 10-ft. steel mast and all accessories needed for easy installation.

Note

ANTENNA SHIPPING INFORMATION

Antennas and accessories with "U" or "Z" in the Stock No. are shipped separately from other items on your order, by truck or express from our Maywood, Illinois warehouse.

KNIGHT VHF and UHF TV Antennas

METROPOLITAN AND NEAR-FRIDGE VHF TV ANTENNA KITS

For Color or
Black and White
Rugged, Heavy-
Duty Design

2-Bay
VHF
Conical
\$885

Easy to
Install

Up To 60
Miles

Snap Out
for Quick, Easy
Installation

Strain Relief
Prevents Broken
Lead-In Line

KNIGHT TWO-BAY CONICAL ANTENNA WITH CHIMNEY MOUNT

Gives excellent reception of all VHF channels. High gain for color or black and white up to 60 miles from transmitter. Features aluminum tubing; 1" aluminum cross-beam. "Quick-Rig" design cuts installation time. With accessories at right, 10 ft. of mast plus chimney mount. Shpg. wt., 10 lbs.

92 CX 173..... **8.85**

TWO-BAY CONICAL ANTENNA WITH ROOF MOUNT

Same 2-bay antenna kit as above, but with universal-angle roof mount in place of chimney mount. Shpg. wt., 10 lbs.

92 CX 133..... **8.25**

SINGLE-BAY CONICAL ANTENNA WITH CHIMNEY MOUNT

Up to 40-mile range. As above, but 1 bay only. Supplied with 5 ft. of mast. Shpg. wt., 7 lbs.

92 CX 174..... **6.35**

SINGLE-BAY CONICAL ANTENNA WITH ROOF MOUNT

As above, but 1 bay only. Shpg. wt., 6 lbs.

92 CX 135..... **5.85**

SINGLE-BAY CONICAL ANTENNA ONLY

1-bay antenna, less all accessories, mounts and mast, 3 lbs.

92 CX 136..... **2.50**

ANTENNA STACKING KITS

Stacks 2 single-bay conicals into
2-bay array. Wt., 8 oz.

92 CX 116..... **65¢**

Stacks two 2-bay conicals into
4-bay array. 1 1/4 lbs.

92 CX 115..... **1.55**



High-Low
\$790

Up To
40 Miles

KNIGHT HIGH-LOW ANTENNA KIT WITH CHIMNEY MOUNT

A two-band VHF antenna kit priced remarkably low. Separate directional adjustments permit "aiming" high and low-band elements individually. Gives peak performance in areas where high and low-band signals come from different directions. Provides excellent reception of color and black and white programs, channels 2 to 13. Elements of aluminum tubing. Connecting loop supplied assures correct impedance match for maximum signal gain. Includes accessories described above, 5-ft. of mast

and chimney mount. Wt., 10 lbs.

92 CX 457..... **7.90**

HIGH-LOW KIT WITH ROOF MOUNT

As above, but with universal-angle roof mount and hardware. Shpg. wt., 9 lbs.

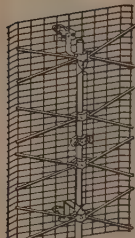
92 CX 458..... **6.75**

HIGH-LOW ANTENNA ONLY

Above 2-band antenna, but less all mounts and accessories. Shpg. wt., 5 lbs.

92 CX 459..... **3.95**

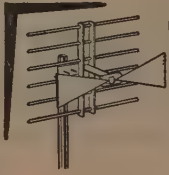
KNIGHT UHF ANTENNAS IMPROVE TV PERFORMANCE



4-Bay
Bow-Tie
\$475

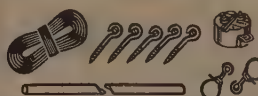


Corner
Reflector
\$490



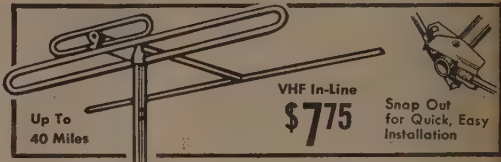
Economy UHF
\$370

All These Accessories Included with Antenna
Kits PLUS Choice of Chimney or Roof Mount...



- 5—Screw-in Standoffs
- 2—Mast Standoffs
- Rugged Steel Masts
- 1—Lightning Arrester
- 1—50' Coil of Twin Lead

GOLD-ANODIZED IN-LINE ANTENNA KITS



Up To
40 Miles

VHF In-Line
\$775

Snap Out
for Quick, Easy
Installation

- Resist Corrosion and Rust
- Quickly, Easily Installed

- For Color/Black and White
- Sturdy Aluminum Tubing

KNIGHT IN-LINE ANTENNA KIT WITH CHIMNEY MOUNT

Complete VHF antenna kit at a low, money-saving price. Time-proven in-line design gives sharp, clear color and black and white picture on Channels 2 to 13. Has flat response and good directivity. Elements are of tempered 3/4" aluminum with 1" aluminum cross arm; gold anodized to resist smoke, soot and ravages of weather. Supplied complete with all accessories described above, 5 ft. of mast and chimney mount. Shpg. wt., 10 lbs.

92 CX 454..... **7.75**

IN-LINE ANTENNA KIT WITH ROOF MOUNT

Same as above, but with universal-angle roof mount in place of chimney mount. Shpg. wt., 10 lbs.

92 CX 455..... **7.45**

IN-LINE ANTENNA ONLY

As above, but less all accessories, mounts and mast. Wt., 5 lbs.

92 CX 456..... **4.95**

KNIGHT FOUR-BAY BOW TIE UHF ANTENNA

Completely assembled and wired, ready for quick installation anywhere. Can be easily attached to any existing VHF installation. Single bay gives good reception up to 50 miles; 2 bays to 70 miles; 4 bays for distances to 90 miles. Has pre-installed phasing harness that maintains optimum line matching. Shpg. wt., 4 lbs. Shipped express or truck.

92 CU 460..... **4.75**

92 CX 501, Stacking Kit. For two 4-bay bowties. Wt., 1/2 lb..... **2.75**

92 CX 502, Stacking Kit. For four 4-bay bowties. Wt., 1 lb..... **5.45**

KNIGHT DELUXE ALUMINUM CORNER REFLECTOR UHF ANTENNA

Ready to use. For fringe area and difficult primary locations. Up to 80 miles with dual stack. Sharp horizontal and vertical directivity for elimination of ghosts and interference. Shpg. wt., 5 lbs.

92 CU 461..... **4.90**

KNIGHT ALL-ALUMINUM ECONOMY UHF ANTENNA

Completely assembled, ready to fasten to mast. 30 mile range. High gain and level response on all channels. Shpg. wt., 3 lbs. Shipped express or truck.

92 CU 462..... **3.70**

TV Antenna Kits and Indoor TV/FM Antennas

ALL-CHANNEL "REMBRANDT" ANTENNA KITS

- All-Direction Pickup
- Handy Switch Automatically Connects Proper Element
- Covers Channels 2-13
- Made of Sturdy Aluminum
- Quick, Easy Installation



12-POSITION SWITCH

Twelve-position switch—included with famous All-Channel "Riviera" and "Atlas" antennas, below—selects proper antenna elements for clearest picture from any direction without having to rotate antenna assembly.

2-BAY "RIVIERA" VHF ANTENNA KIT

11-directional, 2-bay antenna complete with all accessories for easy installation. Sixteen "0" elements provide excellent deep-fringe reception. Convenient 12-position switch can be positioned at the TV set—selects proper elements for best reception from any direction. Lets you enjoy sharper, clearer viewing with color sets and black and white. Sturdy aluminum construction includes four 45° stacking bars. Diamond-embossed, 1/2"-diameter elements are preassembled—simply fold out for quick set-up. Kit includes: two 5-foot masts; 100 feet of lead-in; 3 mast insulators; 5 wall insulators; and chimney mount. Shpg. wt., 15 lbs. Shipped express or truck from Maywood, Illinois warehouse. **32.92**

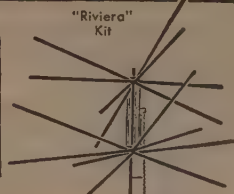
RIVIERA" ANTENNA AND SWITCH. As above, but less mast and all installation accessories. Shpg. wt., 10 lbs. **2 CU 351.....19.85**

WIRE FOR "RIVIERA," 4-conductor lead-in. Wt., per 100 ft., 2 lbs.
47 TX 589, 100-ft. Coil.....8.90
47 W 599, Over 100 ft. PER 100 FT.....8.90

2-BAY "ATLAS" VHF ANTENNA KIT

UP TO 85 MILES. Near-fringe antenna with eight 45° flip-out elements (preassembled) in each of 2 bays; plus four 45° stacking bars. Supplied complete with same 12-position selector switch featured in the "Riviera" kit, described above. Has 1/2"-diameter elements, diamond-embossed for extremely efficient signal pickup. Can be used for color TV reception, as well as black and white. Kit includes: 70-feet of flat transmission line, lugged and wired to the antenna; two 5-foot mast sections; 4 standoff insulators, and 4" wall mount brackets. 14 lbs. Shipped express or truck from Maywood, Illinois warehouse. **22.45**

1 CU 337.....



\$32⁹²

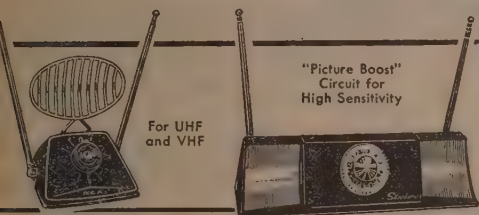
For Up to 125 Miles

ALL ACCESSORIES INCLUDED



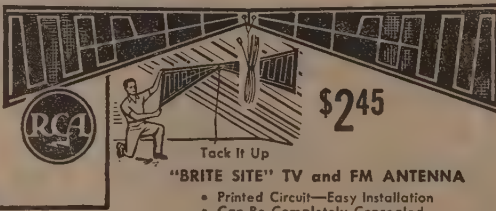
Accessories supplied with the "Riviera" antenna are: two 5-foot heavy-duty mast sections; 100 feet of weather-proofed lead-in; 3 mast insulators; 5 wall insulators; and a chimney mount to securely anchor antenna.

SELECTED INDOOR TV and FM ANTENNA VALUES



For UHF and VHF

"Picture Boost"
Circuit for
High Sensitivity



\$245

"BRITE SITE" TV and FM ANTENNA

- Printed Circuit—Easy Installation
- Can Be Completely Concealed

UHF-VHF SENTRY ANTENNA

Radar-coil indoor antenna for black and white or color. Telescoping brass arms extend to 46". Adjustable selector switch for optimum reception. Supplied with 6-ft. transmission line, lugs attached. Shpg. wt., 2 1/2 lbs.

2 CX 436, Mahogany.....5.35
2 CX 437, Walnut.....5.35

STARLINER ANTENNA

Provides excellent metropolitan VHF reception. 12-position switch settings eliminate interference problems, 4-section brass arms telescope to 46". Supplied with 6-ft. transmission line, lugs. Size, 14x4x3 1/2". 2 1/2 lbs.

92 CX 419, Mahogany.....6.95
92 CX 423, Walnut.....6.95

KNIGHT VHF ANTENNA

Popular indoor antenna for Channels 2 to 13 and FM. Uses efficient, time-proven "rabbit ears" design that adjusts easily for clear pictures. Two 3-section telescoping elements. Tip-proof base is felt-padded. Includes 3 feet of twin-line for lead-in. Shpg. wt., 2 lbs.

92 CX 025.....1.24

G-C TELCO VHF ANTENNA

Compact, plastic-cased "hide-away" antenna. For excellent Channel 2 to 13 metropolitan reception. Telescoping elements of durable, nickel-plated brass tubing, mounted on ball-joint swivels; rotate 360°. 5-section elements extend to 37"; retract out of sight when not in use. With lead-in. Wt., 1 lb.

92 CX 029.....1.71

JFD TA-149 UHF ANTENNA

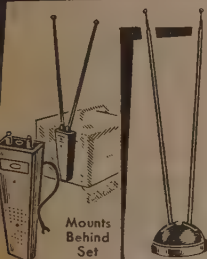
Twin-bowtie dipoles and screen reflector provide excellent metropolitan reception on channels 14 to 83. Gold-alodized elements for lasting beauty. Tip-proof base with protective, non-marring pads. Includes 300-ohm twin lead, tipped with spade lugs for easy connection to set. 12x12x6". Wt., 2 lbs.

92 CX 598.....3.43

LOW-COST FM TWINLINE ANTENNA

Unusually low-cost, folded dipole type FM antenna. Place under rug, behind hi-fi equipment cabinet—in any out-of-the-way location. Use wherever outdoor installation is not practical. Includes 6-feet of lead-in. Shpg. wt., 6 oz.

92 CX 019.....99¢



G-C TELCO

KNIGHT

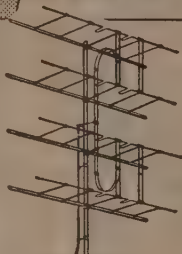
\$171

\$124

FINNEY FRINGE-AREA TV ANTENNAS

- ✓ Flat Response for Sharp Color or Black/White TV
- ✓ Telescoping Masts in Choice of 20' or 40' Heights
- ✓ Complete Packages Priced for Outstanding Savings!

NOW AVAILABLE IN COMPLETE TELESCOPING-MAST SYSTEMS



**CO-LATERAL
UHF-VHF
ANTENNA**

Receives VHF Signals Up to 125 Miles

MODEL 400-A ANTENNA—125 Miles. Made for fringe reception of VHF and UHF TV channels—125 miles or more on VHF channels and 60 miles on UHF channels. 32 driven elements achieve extremely high gain, directivity and signal-to-noise ratio. Lightweight, rugged, weather-resistant all-aluminum construction. Stainless steel hardware. Self-locking and self-aligning element brackets. Only one 300-ohm lead-in required (tubular type recommended). Requires 10-ft. mast (minimum). Less mast and lead-in. Buy the kits with Tower Package and Rotator Package (listed below) for best results, biggest savings. Shpg. wt., 12 lbs.

92 CZ 269, Antenna Alone..... **25.67**

**Complete
Rotator Kit**
as low as
\$73.95

**Antenna
Alone**
\$25.67

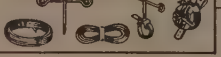
Tower Package

Mast with
Easy-Locking
"Slip-up"
Adjustment

All Wire and
Hardware Included







**Optional
Rotator
Package**




• CDR Rotator
• Control
• 10' Mast
• 100' Cable

Automatic Rotator and Rotator Control



**Complete
Rotator Kit**
as low as
\$78.95

Antenna Alone
\$30.85

"ATLAS" VHF ANTENNA

- Receives Signals Up to 150 Miles
- Duo-Twin Drive for Maximum Efficiency
- Rugged Boom Suspension—Greater Support

A420CG "ATLAS" ANTENNA—150 Miles. For deep fringe reception of channels 2-13 at up to 150 miles, or more. Highly efficient performance with "Duo-Twin Drive." Two half-wave dipoles twin-driven on low band, two 3-element colinear dipoles twin-driven on high band. Total of 33 driven elements. All-aluminum. Gold corodized for longer life, resistance to weather. 1" square boom is 10' long. Suspension rods afford far greater boom support than ordinary bracing. Less mast, 300-ohm lead-in. Enjoy big savings when you buy complete antenna kits (below)—items purchased separately cost more. Shpg. wt., 10 1/2 lbs.

92 CZ 464, Antenna Alone..... **30.85**

FINNEY 400-A AND "ATLAS" TV ANTENNA KITS WITH AND WITHOUT AUTOMATIC ROTATOR—AT SPECIAL PRICES

Antenna kits with rotators include: antenna; 20' or 40' slip-up mast; all-angle mount; guy and ground wire; ground rod; lightning arrestor; 100' twin line; 100' control cable; 10' rotator mast; hardware and instructions. Kits without rotator include all of the above except rotator, 10' rotator mast and control cable. Rotator for 110-120 v., 60 cycle AC.

Stock No.	Type	Description	Lbs.	EACH
23 CZ 072-4	FU-20.	Kit with 20' mast, 400-A antenna plus rotator package	68	73.95
23 CZ 073-3	FU-20L	Kit with 20' mast, 400-A antenna; less rotator package	44	32.95
23 CZ 074-4	FU-40	Kit with 40' mast, 400-A antenna plus rotator package	85	82.50
23 CZ 075-3	FU-40L	Kit with 40' mast, 400A antenna; less rotator package	62	42.50

Stock No.	Type	Description	Lbs.	EACH
23 CZ 068-4	F-20	Kit with 20' mast, "Atlas" antenna, rotator package	62	78.95
23 CZ 069-3	F-20-L	Kit with 20' mast, "Atlas" antenna; less rotator pkg.	34	38.50
23 CZ 070-4	F-40	Kit with 40' mast, "Atlas" antenna, rotator package	82	87.50
23 CZ 071-3	F-40-L	Kit with 40' mast, "Atlas" antenna; less rotator pkg.	64	47.75

MODEL F-4 DEEP-FRINGE VHF TV ANTENNA

\$2814
\$5 monthly

- For Fringe Areas Up to 150 Miles
- Exclusive "Fidelity Phasing" Design
- Extremely High Sensitivity, Directivity
- Excellent for Color-TV Reception
- Preassembled for Easy Installation

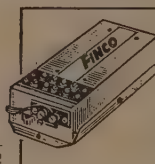
MODEL F-4 VHF TV antenna—150 miles. Exclusive "Fidelity Phasing" produces superior performance on all channels from 2 through 13. Permits excellent reception even at locations extremely distant from TV stations. Splendid for color-TV reception—has very flat frequency response (less than 1 db variation on any channel). 4 driven low-band, in-phase folded dipoles, plus 12 driven high-band, in-phase folded dipoles form a highly effective colinear array. High sensitivity and directivity. Rugged, lightweight aluminum construction. Gold-corodized. Preassembled for quick installation—just snap elements into place. Less mast and 300-ohm twin lead. Shpg. wt., 13 lbs.

92 CZ 072, \$5 Monthly..... **28.14**

\$2543

- Absolute Flat Response for Color and Black-and-White TV
- Heavy-Duty Boom Suspension

MODEL GB-8—125 Miles. Deluxe, gold-corodized aluminum unit with 3 directors and 2 reflectors for top-notch deep-fringe performance. Exclusive "Fidelity Phasing" simplifies design; gives in-phase colinear currents for greater signal gain. Has extremely sharp directivity. Less mast, 300-



**T-AMB TV-FM
TRANSISTORIZED
BOOSTER/COUPLER**

\$2127 \$5 monthly

Improves reception in fringe and weak-signal areas, and permits signal distribution to up to 4 TV or FM sets. Gain with one FM set is 12 db @ 108 mc, 15 db @ 88 mc. With one TV set, gain is 8.5 db on channels 7-13, 15 db on channel 6, and 17 db on channels 2-5, 13x2 1/4x3". For 110-120 v., 60 cycle AC. Shpg. wt., 1 1/2 lbs.

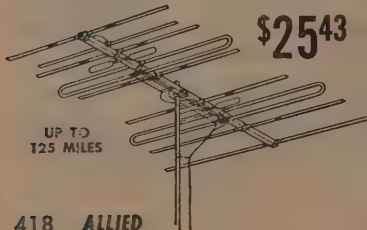
91 CZ 276, \$5 Monthly..... **21.27**

TWIN-DRIVEN "GEOMATIC" VHF FRINGE ANTENNA

- Gold Corodized—100% Protective Surface on Aluminum Antenna
- Pre-Assembled for Easy Set-Up

ohm lead-in. Shpg. wt., 10 lbs.
92 CZ 594, \$5 Monthly..... **25.43**

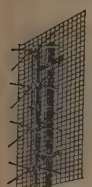
STACKING KIT. For use with GB-8 above. Gives increased gain on channels 2-6 and 10-13. Shpg. wt., 1 lb.
92 CX 087..... **1.82**



Extra-Rugged Construction Gives Added Years of Use
Offer Maximum Gain-Per-Element and High Sensitivity
Complete with Instructions for Easy Installation

FINNEY VHF, UHF and TV-FM ANTENNAS

ULTRA-SENSITIVE FINNEY UHF TV ANTENNA ARRAYS



4-BAY BOW-TIE
\$492

UP TO 55 MILES

A

- Easily Installed
- Rugged, Durable



2-BAY BOW-TIE
\$338

UP TO 25 MILES

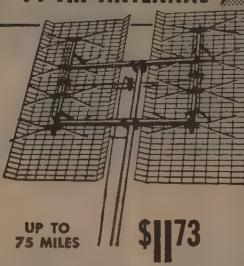
B



UP TO 45 MILES

C

UHF CORNER REFLECTOR \$441



UP TO 75 MILES
\$1173

MODEL 44BT 8-BAY BOW-TIE

- Two Deluxe 4-Bay UHF Units
- Parallel Synchronized Elements
- Pre-assembled—Easy to Install

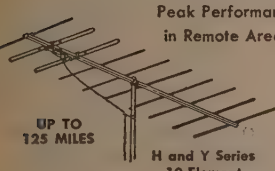
A MODEL 4BT—55 Miles. Outstanding reception of all UHF channels 14 through 83. Flat response for both black-and-white and color. Highly sensitive—elements and large reflector screen efficiently feed weak signals to TV set. U-bolt tightens from back for easy installation on any mast. Features: aluminum screws and nuts (no rusting); polystyrene and polyethylene insulators; extra-heavy welded wire fabric; all-aluminum heat-treated high-tensile wire elements and feed lines; die-electric spacer insulation; twin drive cross-over. Less mast, lead-in. 4½ lbs. **4.92**
92 CU 495

B MODEL 2BT—25 Miles. Provides excellent semi-fringe performance across full UHF band—top value at this low price. Easily installed—mounts to any mast. Includes: U-bolts, aluminum screws and nuts. Less mast and lead-in. 2 lbs. Shipped express or truck. **3.38**
92 CX 494

C MODEL CRB—45 Miles. Corner Reflector type UHF antenna for superb fringe area reception. Lightweight aluminum. Large reflector screen. High gain, sharp directivity greatly reduce "ghosts" and "snow." "Fold-open" assembly. Less mast, lead-in. Shpg. wt., 5 lbs. Shipped express or truck. **4.41**
92 CX 497

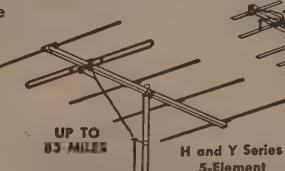
D MODEL 44BT—75 Miles. Two 4-bay units (8 colinear bays) supplied with pre-formed solid aluminum rod harness system. Finer calibration and parallel synchronized elements give sharp directivity and maximum signal gain. Strong double cross member boom. Double bracketry with aluminum nuts, bolts and vital contacts (no rusting). Extra large, heavy mast bracket for installation on any mast. Less mast and lead-in. Shpg. wt., 8½ lbs. **11.73**
92 CU 500

POWER-PACKED FINNEY VHF TV AND TV-FM ANTENNA ARRAYS



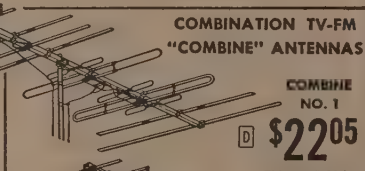
UP TO 125 MILES

H and Y Series 10-Element



UP TO 85 MILES

H and Y Series 5-Element



COMBINATION TV-FM "COMBINE" ANTENNAS

COMBINE NO. 1

\$2205

D

TV to 85 Miles FM to 75 Miles

"GEOMATIC" FRINGE-AREA TV ANTENNAS

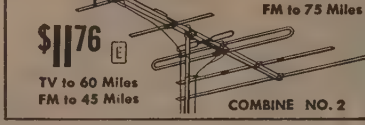
High-quality yagi TV antennas for dependable black-and-white and color reception in fringe areas. Feature durable, lightweight aluminum construction for resistance to weather extremes. Provide maximum gain, sharp directivity pattern, flat frequency response, and high front-to-back ratio.

MODELS Y10 and H10. For up to 125 miles. Ten elements. Av. wt., 4½ lbs.

Stock No.	Model	Channel	EACH
2 CU 236	Y10-2	2	13.05
2 CU 237	Y10-3	3	12.73
2 CU 238	Y10-4	4	12.08
2 CU 240	Y10-5	5	11.50
2 CU 241	Y10-6	6	11.05
2 CU 552	H10-7	7	5.85
2 CU 553	H10-8	8	5.85
2 CU 554	H10-9	9	5.85
2 CU 555	H10-10	10	5.85
2 CU 556	H10-11	11	5.85
2 CU 557	H10-12	12	5.85
2 CU 558	H10-13	13	5.85

MODELS Y5 and H5. To 85 miles. 5-element units. Av., 2 lbs. Express or truck.

Stock No.	Model	Channel	EACH
92 CU 242	Y5-2	2	6.50
92 CU 243	Y5-3	3	6.33
92 CU 244	Y5-4	4	6.13
92 CU 245	Y5-5	5	5.71
92 CU 251	Y5-6	6	5.48
92 CU 560	H5-7	7	3.91
92 CU 561	H5-8	8	3.91
92 CU 562	H5-9	9	3.91
92 CU 563	H5-10	10	3.91
92 CU 564	H5-11	11	3.91
92 CU 565	H5-12	12	3.91
92 CU 566	H5-13	13	3.91



COMBINE NO. 2

\$1176

E

TV to 60 Miles FM to 45 Miles

D FRINGE-AREA TV-FM ANTENNAS

Gold-Corodized. 20 twin-driven elements for TV—15 high-band, 5 low-band. Also has directional twin-phase 4-element yagi for FM up to 75 miles. Corroded finish resists corrosion. Less mast. Requires two 300-ohm lead-ins. Shpg. wt., 8 lbs. **22.05**
92 CU 373

92 CU 382. Non-Corodized. As above, but plain aluminum. Shpg. wt., 8 lbs. **19.96**

E SEMI-FRINGE TV-FM ANTENNAS

Gold-corodized. 14 elements for TV—10 high-band and 4 low-band. 3-element yagi for FM. Less mast. Requires two 300-ohm lead-ins. 5 lbs. **11.76**
92 CU 371. Non-Corodized. As above, but plain aluminum. Shpg. wt., 5 lbs. **10.55**

SHIPPING INFORMATION

Antenna equipment with "U" or "T" in Stock No. shipped separately from other items, by truck or express, from our Maywood, Ill. warehouse.

BROADBAND—HIGHBAND ANTENNAS (Channels 7-13). Express or Truck.

Range	Stock No.	Model	Boom	Elements	Lbs.	EACH
200 miles	92 CU 402	H14-713	15'6"	14	6	14.67
125 miles	92 CU 559	H10-713	6'11"	10	4½	7.61
100 miles	92 CX 567	H6-713	4'10"	6	2¾	5.14

MODEL A STACKING KIT

For all Finney H5 and H10 antennas; plus H14-713, H10-713, and H6-713 high-band antennas. Wt., 8 oz. **1.23**
2 C 086

MODEL B STACKING KIT

For stacking all Finney Y5 and Y10 single-channel 5 and 10-element TV antennas. 8 oz. Express or truck. **1.53**
92 CX 075

JFD

VHF TV Antennas and Antenna Kits

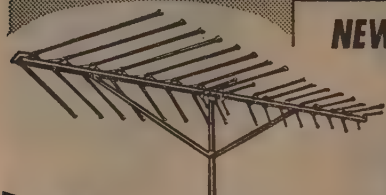
NEW!

LPV LOG-PERIODIC TV ANTENNAS

$$LPV \frac{L_{(n+1)}}{L_n}$$

From JFD ... a New Concept
in Television Antenna Design!

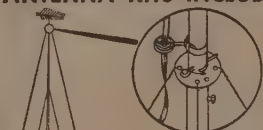
Developed at the University of Illinois Antenna Research Lab and proved in Air Force satellite telemetry, LPV antennas employ harmonically resonant V-elements operating on the log-periodic cellular principle in the fundamental and 3rd harmonic modes. Gain is frequency-independent—flat response across all VHF channels. Equal other wideband arrays in gain, directivity bandpass and F/B ratio. For color or black and white TV.



Feature "Flip Quick" construction, 1" square aluminum crossarm, solid aluminum harness, sleeve reinforced elements, oversized "tank-turret" bracket.



ANTENNA KITS INCLUDE



Tower Package
LPV17, 14 or 11 Log-Periodic Antenna and 20 or 40-ft. Easy-Locking "Slip Up" Antenna Mast

Ground and Guy Wire, Twin Lead, Arrester, All Hardware.



OPTIONAL ROTATOR PACKAGE



- CDR Rotator
- Control Unit
- 10' Mast
- 100' Cable

Optional Rotator Package includes Tower Package above plus rotator, control unit, additional 10' mast and 100' of control cable.



TRANSISTORIZED TV SIGNAL BOOSTER

MODEL TNT103. Converts any antenna into an antenna-distribution system for up to 4 TV sets—increases pull-in power. Gain: to 15 db on low band, to 10 db on high band, to 12 db on FM. TNT25 transistorized amplifier (Fig. A) mounts on antenna. TNT85 power supply (Fig. B), for 115 v., 60 cycle AC, gives single or multiple-set operation. With hardware; less antenna. Shpg. wt., 1½ lbs.

91 C 277. \$5 Monthly.....24.26

LPV17 Up to 175 Miles LPV14 Up to 150 Miles LPV11 Up to 125 Miles

- High Gain—Up to 14 db in LPV17
- Sharp High and Low-Band Directivity
- Front-to-Back Ratio Up to 35 db
- VSWR as Low as 1.2:1 with Constant Impedance Across Full Bandwidth
- Flat Response Across All 12 Channels
- Frequency-Independent Design for Extremely Broad Bandwidth
- Gold-Alodized to Prevent Corrosion
- 100% Preassembled—Easy to Install

Inherently independent of frequency, the JFD Log-Periodic Antenna delivers the same superb performance on every VHF channel—performance comparable to that of a single-channel yagi. Produces excellent color or black and white pictures, as well as distortion-free reception of FM stereo. Truly an all-channel, all-purpose antenna! Supplied in 3 ruggedly built models, all featuring 100% preassembled "Flip-Quick" construction. LPV17, LPV14 and LPV11 have boom braces for rigid element and director support. Others are similar but do not have boom braces. Less mast, twin line. Shipped express or truck only.

Stock No.	Model	Active Elements and Directors	Crossarm Length	Mileage	Shpg. Wt.	EACH
92 CZ 449	LPV17	18	180"	Up to 175 mi.	17 lbs.	34.95
92 CZ 448	LPV14	15	148"	Up to 150 mi.	14 lbs.	29.37
92 CZ 447	LPV11	11	121"	Up to 125 mi.	11 lbs.	23.45
92 CZ 446	LPV8	8	96"	Up to 100 mi.	9 lbs.	17.61
92 CZ 445	LPV6	6	66"	Up to 75 mi.	7 lbs.	12.91
92 CZ 444	LPV4	4	39"	Up to 50 mi.	5 lbs.	8.79

MONEY-SAVING JFD TV ANTENNA KITS

Complete With LPV Log-Periodic Antenna, Mast and All Accessories

- Quick Installation—Easy Instructions
- Your Choice of 20 or 40-ft. Mast
- With All Wire, Twin Line, Hardware
- Optional Rotator Package

Get excellent TV reception—at big savings, too! JFD antenna kit prices are lower than the cost of components purchased separately. Kits listed with a choice of 20 or 40-foot masts. Distance to TV stations determines antenna to use; local terrain (hills, trees, tall buildings, etc.) determines mast height to use. The fully automatic CDR AR-22 rotator aims antenna for best reception of any station. All kits are complete with AAA gold-alodized LPV antenna; steel mast; all-angle mount; guy wire; 100-ft. 300-ohm twin line; 50-ft. ground wire; ground rod; lightning arrester; all hardware; and detailed installation instructions. Rotators are for 110-120 v., 60 cycle AC. Shipped express or truck only.

SUPER-FRinge ANTENNA KITS—UP TO 175 MILES

Include Model LPV17 18-element log-periodic VHF TV antenna (described above); and all accessories and instructions for making a quick, easy installation.

Stock No.	Mfr's Type	Description	Shpg. Wt.	EACH
23 CZ 076-4	G-20	20 ft. tower pkg; plus rotator package	71 lbs.	82.50
23 CZ 077-3	G-20L	20 ft. tower pkg; less rotator package	43 lbs.	39.95
23 CZ 078-4	G-40	40 ft. tower pkg; plus rotator package	91 lbs.	89.95
23 CZ 079-3	G-40L	40 ft. tower pkg; less rotator package	68 lbs.	49.95

DEEP-FRinge ANTENNA KITS—UP TO 150 MILES

Include Model LPV14 log-periodic antenna; all accessories; and detailed instructions.

23 CZ 080-4	H-20	20 ft. tower pkg; plus rotator package	69 lbs.	77.50
23 CZ 081-3	H-20L	20 ft. tower pkg; less rotator package	41 lbs.	37.50
23 CZ 082-4	H-40	40 ft. tower pkg; plus rotator package	89 lbs.	84.95
23 CZ 083-3	H-40L	40 ft. tower pkg; less rotator package	66 lbs.	44.50

FRINGE ANTENNA KITS—UP TO 125 MILES

Include Model LPV11 log-periodic antenna; all accessories; and detailed instructions.

23 CZ 084-4	J-20	20 ft. tower pkg; plus rotator package	66 lbs.	71.50
23 CZ 085-3	J-20L	20 ft. tower pkg; less rotator package	38 lbs.	31.95
23 CZ 086-4	J-40	40 ft. tower pkg; plus rotator package	86 lbs.	79.50
23 CZ 087-3	J-40L	40 ft. tower pkg; less rotator package	63 lbs.	39.95

VHF and UHF TV Antennas

JFD

JFD VHF ANTENNAS

Rustproof, Seamless
Aluminum Crossarms

"PACE-SETTER"
YAGI
ANTENNAS

Up to
125 Miles

SINGLE-CHANNEL 10-ELEMENT TYPES

Provide sharp directivity and over 11½ db gain—52% above most 5-element yags. Ideal for deep-fringe areas. Full-length 1" O.D. crossarm. Y-type braces supplied with ch. 2-6 models. Gold-alodized. Less mast, twin line. Av. wt., 9 lbs. Shipped express or truck.

Stock No.	Model	Channel	EACH
92 CZ 309	1022G	2	14.29
92 CZ 310	1023G	3	13.88
92 CZ 311	1024G	4	13.41
92 CZ 313	1025G	5	12.91
92 CZ 314	1026G	6	12.41
92 CZ 315	1027G	7	
92 CZ 316	1028G	8	6.17
92 CZ 317	1029G	9	
92 CZ 318	10210G	10	
92 CZ 320	10211G	11	
92 CZ 321	10212G	12	6.17
92 CZ 328	10213G	13	

STACKING HARNESSES

Matching harnesses for stacking Pace-Setters, above. Give higher gain needed for distant stations and hilly areas. Gold-alodized. Av. shpg. wt., ½ lb.

Stock No.	Model	Channel	EACH
92 CX 405	BT2G	2	
92 CX 407	BT3G	3	1.03
92 CX 408	BT4G	4	
92 CX 410	BT5G	5	
92 CX 411	BT6G	6	
92 CX 412	BT713G	7-13	.73

Up to
150 Miles

\$29⁰⁰

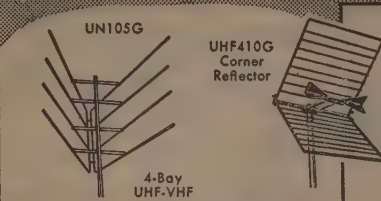
\$5 monthly

- 31 Working Elements
- Gold-Alodized Aluminum
- High Gain on All VHF Channels

MODEL VX1111G. For excellent color or black and white reception in deep-fringe areas. 25 multi-function physical elements operate with microwave helical probe to offer extremely sharp directivity and wide vertical beam width. Up to 14 db gain on high-band; 9 db on low-band. Alodized to prevent corrosion. 1" square boom has 2-1" braces. Less mast, twin line. 13 lbs. Shipped express or truck.

92-CZ 404, \$5 Monthly.29.11

JFD
"SATELLITE
HELIX"



UHF-VHF AND UHF ANTENNAS

MODEL UN105G—Up to 60 Miles. UHF-VHF antenna for channels 2 to 83. 4-bay for extra gain and signal sensitivity for semi-fringe areas. Features redwood crossarms. Preassembled. Has all-aluminum elements. Less mast, twin line. 5½ lbs. Shipped express or truck only.

92 CZ 107.....6.29

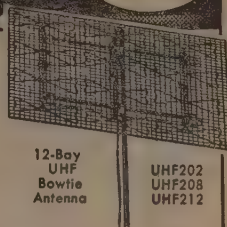
MODEL UHF410G—Up to 50 Miles. UHF unit with extremely sharp directivity. High front/back and front/side ratio. Twin-angled, multi-grid reflectors trap signal, concentrating it in-phase on bowtie dipole. Solid aluminum, gold alodized finish. Easily installed. Less mast, line. 6 lbs.

92 CX 403.....4.47

MODEL UHF208—Up to 100 Miles. 8-bay. UHF bowtie antenna for semi-fringe areas. Wire mesh reflector and matched elements provide optimum gain. Aluminum rods and galvanized screen. Less mast, line. 8 lbs. Shipped express or truck only.

92 CZ 550.....11.73

Antennas with U or Z in Stock No. Are Shipped Separately by Express or Truck from Maywood, Illinois Warehouse.



MODEL UHF212—Up to 125 Miles. 12-bay UHF bowtie antenna for fringe area reception. Super-sensitive "cardioid" dipole design provides extremely high gain, averaging 15 db, over all UHF channels, 14 through 83. Screen is engineered for efficient shielding of conical sections—wire grid offers higher signal-to-noise ratios and noise rejection. Provides sharp directivity; greatly reduces interference and "ghosts." Electronically welded vibration-less assembly is preassembled for simple installation. Less mast, 300-ohm twin line, 10 lbs. Shipped express or truck only.

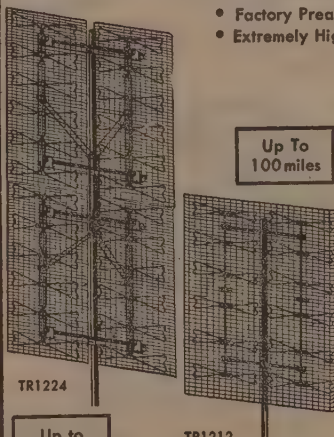
92 CZ 551, \$5 Monthly.....19.70

MODEL UHF202—Up to 50 Miles. 4-bay vertically stacked UHF bowtie antenna for metropolitan and suburban areas. Gives high gain averaging 8 db on all channels—reduces snow and reflections. "Custom-Channel" calibrator peaks individual channels for best response. Precision spaced elements and phasing harness for maximum gain. Galvanized grid wire screen with ¼" O.D. solid aluminum rods. Preassembled for fast installation. Less mast and 300-ohm twin line. Shpg. wt., 6 lbs. Shipped express or truck only.

92 CZ 151.....4.82

UHF TRANSLATOR/MPATI ANTENNA ARRAYS

- Powerful Reception of Channels 70 Through 83
- Broadband Stacking—Multistage Phasing Transformers
- Factory Preassembled for Fast, Easy Installation
- Extremely High Gain—Average of 23 db with TR1224



Up To
100 Miles

TR1224

Up to
150 Miles

TR1212

Unique cardioid dipole design provides superb gain and front-to-back ratio, sharp directivity, and broadband response to cover translator channels

MODEL TR1224—Up to 150 Miles. 24-bay UHF antenna designed for superb reception in deep-fringe areas. Features powerful cardioid dipoles, ruggedized preassembled construction, Impex "A" insulators, and broadband stacking for extra gain on translator channels. Highly directive and sensitive on channels 70-83—extremely narrow forward lobe. Average 18 db gain is obtained from 24 horizontally and vertically wide-spaced and phased cardioid dipoles working off an oversized reflector. Has galvanized wire screen with ¼" solid aluminum dipoles. Phasing transformers assure excellent impedance match. Less mast and 300-ohm twin line. Wt., 23 lbs. Shipped express or truck only.

92 CZ 465, \$5 Monthly.....29.11

MODEL TR1212—Up to 100 Miles. Similar to TR1224 above, but 12-bay model with average signal gain of 14 db. Has 12 horizontally/vertically wide-spaced and phased cardioid dipoles working off reflector. Less mast, twin line. Wt., 11 lbs. Shipped express or truck only.

92 CZ 440.....14.67

MODEL TR1206—Up to 70 Miles. Similar to TR1212 above, but 6-bay model. Has 6 cardioid dipoles working off oversized reflector for average gain of 12 db. Less mast, twin line. Wt., 9 lbs.

92 CZ 187.....6.44

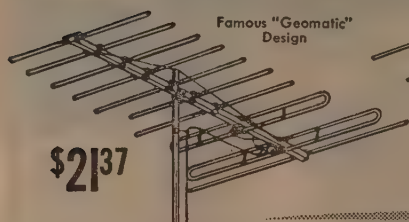
Above shipped express or truck only.

Antennas with U or Z in Stock No. Shipped Express or Truck from Maywood, Ill.

ALLIED 421

Knight, Finney, JFD, B&K/Mark FM Antennas

FINNEY FM ANTENNAS FOR POWERFUL RECEPTION



\$2137

MODEL FM-5 ANTENNA

- 10 Elements Provide Maximum Gain.
- Broadband—Covers Entire FM Band
- Gold-Corodized Non-Corrosive Finish



\$1632

MODEL FM-4G ANTENNA

- Time-Proven 6-Element Yagi Design
- Exceptionally High Front-to-Back Ratio
- Great for Mono or Stereo FM



\$853

MODEL FMT-A ANTENNA KIT

- Greatly Improves Distant FM Reception
- Features All-Directional Pickup Pattern
- Easily Mounts on Your Present TV Mast

Superb 10-element FM antenna for peak FM reception in remote and weak signal areas. "Geomatic" design—twin-driven elements and precisely-spaced directors for high gain across the 88-108 mc FM band. Gold-corodized finish resists weathering. Rigid 10-ft. long square-type boom has suspension-type bracing. All elements are sleeve-reinforced, lock into open position in "snap-lock" brackets. Self-aligning brackets and double-wall reinforced aluminum elements are preassembled. Supplied less mast and 300-ohm twin lead. Shpg. wt., 8½ lbs. Shipped express or truck only.

91 CZ 329. \$5 Monthly.....21.37

Deluxe gold corodized 6-element FM antenna. Twin driven elements with impedance control "T" match stubs offer high gain across entire FM band, 88 to 108 mc. "Geomatic" design provides outstanding front-to-back ratio. Sturdy square aluminum boom, 7', 9" long. Double wall aluminum elements. "Lock-Tite-No-Tilt" saddle mounting and "box girder" snap out brackets are ready for quick installation. Less mast and 300-ohm twin lead. 6½ lbs. Shipped express or truck only.

92 CZ 503. 16.32
92 CZ 280. Model FM-4. As above, but not gold corodized. 14.64

Features a ruggedly constructed, preassembled turnstile-type all-directional antenna that requires no rotation. Supplied with special bracket for simple installation on your present TV mast—there's no need for an additional mast. The two antenna elements are accurately matched with a special quarter-wave phasing stub for optimum gain and all-direction radiation pick-up pattern. Provides strong reception over the entire FM band. Kit includes: FM antenna, 50-ft. twin line, two mast insulators, 3 screw-in insulators, mounting bracket. Less mast. Shpg. wt., 6 lbs.

91 CX 330.....8.53

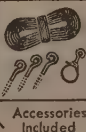
KNIGHT FM ANTENNA KIT

\$645

- Superb Reception
- Ideal for Stereo FM
- With All Hardware

Low price, top quality. Antenna has 2 extruded aluminum folded dipoles at right angles for all-directional, wide-band response. You get: antenna; 5-ft. mast; 50-ft. 300-ohm lead in; universal base; standoffs. Shpg. wt., 7¼ lbs.

92 CU 583.....6.45
92 CU 590. Antenna Only. Less accessories. 3 lbs.4.35



Accessories Included

TACO FM ANTENNAS

as **\$1272**
low as

- Highly Directional
- For Fringe Areas
- Rugged Construction

MODEL 610. 10-element, single-bay yagi. High directivity, F/B ratio, 10 db gain. Elements swing out. Less mast, 300-ohm line, 10 lbs. Shipped express or truck only.

92 CZ 547.....18.42
92 CZ 546. 644B, 6 elements, 9 db gain. 7 lbs.12.72
92 CX 548. 646 Stacking Kit. Phasing line, insulators, hardware. Stacks two 644B or 610 antennas. 1 lb.1.68



as low as
\$820

JFD FM ANTENNA KITS



Complete with Mounting Accessories

MODEL AFM-100G—40 MILES

Sensitive all-directional FM antenna kit at a low price, "Stereo Cone" turnstile design assures optimum reception of stations in all directions. Kit includes: preassembled gold-Alodized aluminum antenna; 5-ft. mast; guy ring and wire; 4 standoffs; 50-ft. 300-ohm line; hardware. Shpg. wt., 5½ lbs.

91 CX 987.....9.38

MODEL AFM-175G—40 MILES

As above, but mounts on any TV antenna mast. With antenna; support mast; U bolts; brackets; 50-ft. 300-ohm twin line; 4 standoffs; hardware, 4 lbs.

91 CX 219.....8.20

NEW!



\$2426

B&K/MARK STEREO 7 FM ANTENNA

\$1497

Doubles Power of Signals



"TRANSIS-TENNA" FM ANTENNA BOOSTER AMPLIFIER

- It's Fully Transistorized
- Mounts on Any Antenna; 25 Db Gain
- Distributes Signal to 1-4 Sets

Model TNT106FM. All-transistor antenna booster adds up to 25 db gain to any FM antenna, with wide-band response. Mounts directly on antenna dipoles for top efficiency and low noise. Power supply contains distribution system for up to four separate FM sets. Weather-proof amplifier. For 110-125 v., 50-60 cycle AC. 2 lbs.

91 C 403. \$5 Monthly....24.26

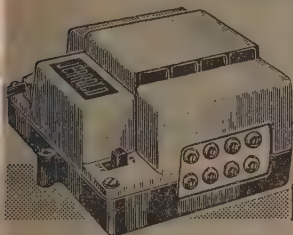
Twice as sensitive as ordinary antennas. Ideal for stereo FM reception. Ready to mount. Folded-dipoles provide sensitive, broadband pickup, equally strong in all directions. All extra heavy-duty welded aluminum-alloy construction for extremely long life—no insulators to break. Only 22x30x5½"—readily mounted in attic or on roof. Fits any mast. With hardware, less mast and lead in. 6 lbs.

92 CX 439.....14.97

Antennas with U or Z in Stock No. Shipped Express or Truck from Maywood, Illinois.

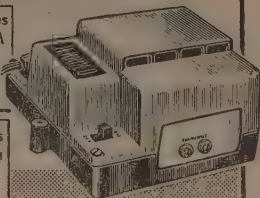
errol TV-FM Distribution Systems and Equipment

300-OHM TV-FM HOME DISTRIBUTION SYSTEMS

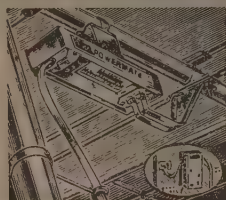


Sharply Improves
Fringe-Area FM
\$1895

Feeds up to 4 Sets
from One Antenna
\$1895



ALL-TRANSISTOR ANTENNA-MOUNTING PREAMP



\$2663 • Use with TV or FM
• Extremely Low Noise
• Up to 18 db Gain

MODEL APM-101 "POWERMATE," Transistorized TV-FM high-gain preamplifier. Low-noise circuit—ideal for fringe and weak-signal areas—boosts signal, not noise.

Direct-mounting on antenna mast gives maximum transfer of antenna energy and minimum noise pickup. Has dual outputs to feed two TV-FM sets; with external couplers (below, left) will feed up to five sets. Housed in waterproof case. "No-strip" terminals. Lead-in supplies power to preamp; no extra wiring needed. Impedance, 300 ohms. Preamp: 24x6 1/4x3 3/4"; power supply, 4x3 1/4x1 1/4". For 110-120 v., 60 cycle AC. Shpg. wt., 1 1/4 lbs. 93 C 553. \$5 Monthly. **26.63**

HSA-44 AMPLIFIED 4-SET COUPLER

- Increase the Range of TV and FM Sets
- Easy Installation—No Wire Stripping

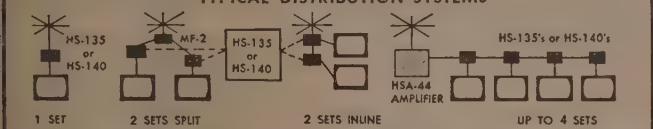
Allows use of up to four TV or FM receivers or combination of both, with a single antenna. Gives minimum of 1/2 db gain at each output for all channels. Input/output impedances: 300 ohms. Serrated washer "no-strip" terminals. Attractive two-tone, light-alloy housing. Only 4 1/2x4 1/2x3". For 110-120 v., 60 cycle AC. Wt., 3 1/4 lbs. 91 C 278. **18.95**

MODEL FMX FM RANGE-EXTENDER

- 20 db Gain Over the Entire FM Band
- Permits Excellent Stereo FM Reception

Low-noise, high-gain preamplifier for boosting FM signals. Ideal for reception of fringe-area stereo multiplex or regular FM broadcasts. Can feed up to 4 FM sets when used with external couplers MF-2 or MF-4. Serrated "no-strip" terminals. Two-tone, light-alloy case, 4 1/2x4 1/2x3". For 110-120 v., 60 cycle AC. Shpg. wt., 3 1/4 lbs. 93 C 043. **18.95**

TYPICAL DISTRIBUTION SYSTEMS



TV-FM COUPLERS

- Run 2, 3, or 4 Sets From 1 Antenna
- Extremely Low-Loss



Offer full isolation between AC-DC sets and antenna. 300 ohms. Weatherproof polystyrene ivory case. 4 1/2x1 1/2x1 1/4". 91 C 149. Model MF-2. For 2 sets. **2.70**

91 C 150. Model MF-4. For 3 or 4 sets. **3.45**

SYSTEM TAPS AND ACCESSORIES



93 C 044. HS-135. Surface-mtg. outlet assembly. With HS-24 plug. 2 oz. **90¢**

91 C 355. HS-140-J. Flush-mounting-outlet assembly. With HS-24 plug and std. outlet-boss mounting adapter. 2 oz. **1.15**

93 C 091. HS-24. 300-ohm plug. No soldering. Fits units above. 2 oz. **30¢**

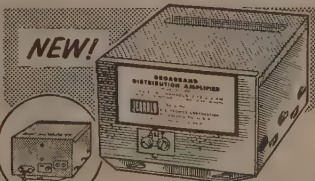
93 C 093. HS-36. Insulators. For securing lead-in indoors. 2 oz. Pkg. of 24. **1.08**

93 C 079. 1562. 2-way splitter. 15-20 db isol. B-59 72-ohm bushings. 8 oz. **4.95**

93 C 083. 1514. 4-way splitter. 12 db isol. Five F-59 bushings. (Cap unused outputs with 72-ohm terminator below.) 8 oz. **8.70**

91 C 414. TR-72F. Terminator. 3 oz. **90¢**

NEW!



Feeds up to 40 Sets—
75 or 300-Ohm Outputs

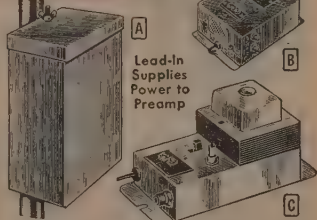
TV-FM BROAD-BAND AMPLIFIER

\$3897

- Excellent For Color
- High Output—High Gain
- Overload Protection

MODEL ACL-200. Compact, high-gain, TV-FM signal amplifier for operating up to 40 sets from a single antenna. Provides a minimum of 20 db gain on TV channels 2 to 6 and 19 db on channels 7 to 13. Ideal for hotels, apartment houses, showrooms, and similar multi-set locations. Flat frequency response across low and high bands assures optimum picture reproduction and true-to-life color reception. Built-in overload protection prevents "swamping" from strong, local FM stations. Amplifier has 300-ohm input and choice of 300-ohm or 75-ohm coaxial outputs (switch selected). Terminals have crown washers to accept stripped or unstripped twin-lead. 3x9x5 3/4". For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs. 91 C 413. \$5 Monthly. **38.97**

"DE-SNOWER" TV-FM PREAMPLIFIERS



As low as

\$5397

- Reduces or Eliminates TV "Snow" and FM "Hiss"
- Easy Hook-Up

A B MODEL DSA-132. Deluxe antenna-mounting TV preamplifier—excellent for use in fringe areas, or as a distribution amplifier in homes, hotels, motels, etc. Covers complete VHF-TV band with 25 db gain. Permits use of extremely weak signals and overcomes noise pick-up and antenna line losses. Noise only 6.5 db on low band; 8.5 db on high band. Input impedance, 300 ohms; output impedance, 75 ohms or 300 ohms. Weatherproof iridite case. Preamp, 5x10x4 1/2"; power supply, 2 1/2x6 1/4x5 1/4". With cable fittings, mtg. screws, mast clamp and strap. For 110-120 v., 60 cycle AC. Shpg. wt., 13 lbs. 92 CX 095. \$5 Monthly. **71.70**

A C MODEL DSA-202. Low-cost, antenna-mounting, TV-FM preamplifier—provides 20 db gain on entire TV band; minimum of 8 db gain on FM. Noise is less than 4.5 db on low TV channels; less than 6 db on high channels. Input impedance, 300 ohms; output, 75 or 300 ohms. With cable fittings, mast mount and clamp, mtg. screws. Weatherproof iridite case. Preamplifier, 4x8 1/2x4"; power supply, 3 1/2x3 1/2x6". For 110-120v., 60 cycle AC. 6 lbs. 93 C 022. \$5 Monthly. **53.97**

MODEL TX ANTENNA MIXING NETWORKS

For mixing single-channel or broadband antennas into a common line. TX-FM is used to feed FM from TV antennas with no losses. TX-H-L mixes high and low VHF channels. TX-VHF-UHF mixes or separates VHF and UHF signals. Include matched mixing jumpers and hardware. Shpg. wt., 4 oz.

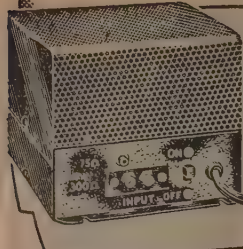
93 C 118. TX-H-L. **3.95**

93 C 119. TX-FM. **3.57**

93 C 120. TX-VHF-UHF. **3.57**



Allied Gives You Highest Quality, Best Service, Lowest Prices



\$4278

High Gain:
Operates
Up to 50
TV Sets and
FM Radios

MODEL HAB VHF AMPLIFIER

- 25 db Gain on Channels 2-13 and FM Band
- Provides Brighter, Sharper TV Pictures
- For Homes, Apartment Buildings, Hotels

Efficient, high-gain VHF television and FM amplifier. Increases signal voltage by at least 18 times—provides more than 25 db gain on all channels from 2 to 13, and on the FM band. Ideal as a preamplifier for home or small master TV antenna systems. Permits brighter, sharper pictures and increases number of TV stations set can pick up. Uses one 6DJ8 and two 6EJ7 tubes to provide highest signal-to-noise ratio, maximum reliability and long life.

Features stripless 300-ohm terminals and 74-ohm solderless coax connectors for input and output—can use 300-ohm twin line or 72-ohm coaxial cable.

In compact, sturdy, ventilated metal cabinet. 6x5 $\frac{1}{4}$ x3 $\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 4 $\frac{1}{2}$ lbs.

93 C 078. \$5 Monthly. 42.78



MLA-C VHF TV SIGNAL AMPLIFIER

\$9163

- Provides 40 db Gain
- Works With Up to 150 TV and FM Radio Sets

The "Masterline" VHF-TV signal amplifier. Provides an effective signal boost of not less than 40 db on all channels from 2 to 13. Install in coax line to single TV set, or use with antenna distribution system in installations feeding up to 150 TV sets from a single antenna. Units may be cascaded for added gain when extremely long transmission lines are used.

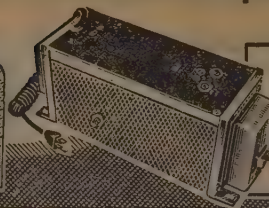
Offers maximum fidelity for color TV as well as black-and-white sets. Gain is adjustable on high and low bands. Response flat within ± 5 db over any 6 mc channel.

Cascade circuits assure minimum noise. 75 ohm coax input and output connectors. 7 tubes, 9x6x5" deep. Perforated gray metal cabinet. 3-wire line cord. For 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.

91 C 365. \$5 Monthly. 91.63

MODEL MLA-FM. As above, but covers entire FM band as well as TV. 9 lbs.

91 C 437. \$5 Monthly. 98.98



Pacemaker
\$7448
Pacemaker Jr.
\$2695

"PACEMAKER" TV-FM AMPLIFIER

- Provides Excellent Fidelity—Ideal for Color TV and FM Reception
- Operates up to 20 TV and FM Radio Sets

Broadband amplifier for use with TV and FM sets—brings very weak signals up to full reception level. Minimum gain is 35 db for TV channels 2-13, and 30 db on FM band. Separate antenna inputs for high TV band, FM and low TV band; jumper permits combined high-low-FM input for use with all-band antennas. Conservatively rated for long, trouble-free use. Noise is better than 6 db down for low band and FM; 7 db down for high band. Output: 2 volts, all bands. Unit is well ventilated, completely covered and tamper-proof. Coaxial connections. 4 $\frac{1}{2}$ x12x4". For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

91 C 255. \$5 Monthly. 74.48

"PACEMAKER JR." TV-FM AMPLIFIER. Low-cost version of "Pacemaker" above, ideal for small apartment installations. Provides 10 db min. gain on both TV channels; 8 db min. gain on FM. 3 $\frac{1}{2}$ x11 $\frac{1}{2}$ x2 $\frac{1}{2}$ ". 3 $\frac{1}{2}$ lbs.

91 C 415. \$5 Monthly. 26.95



DA8-B VHF DISTRIBUTION SYSTEM

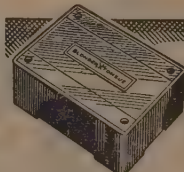
\$6174

\$5 monthly

- Exclusive Low-Noise, All-Triode Circuitry
- Provides 22 db Isolation Between Outputs
- 10 db Gain to Each Set

Versatile, combination booster and isolation-distribution system for use with up to 8 TV sets. For small apartment buildings, hotels, motels, etc. 22 db minimum isolation between outputs. Provides 10 db gain to each TV set for sharp, clear pictures. System overload is prevented through a 10-1 gain control range. Has inputs for 75- or 300-ohm line. Eight outputs accommodate 75- or 300-ohm line; one of these outputs may be used to feed another DA8-B to permit hook-up of additional TV sets. Includes power supply, terminating resistors and grounding clamp. Screw terminals. 5x9x5 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 6 lbs.

91 C 248. \$5 Monthly. 61.74



IT-4 TV-FM BOOSTER-COUPLER

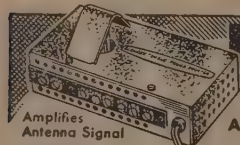
\$1940

- Fully Transistorized
- Low Power Drain
- Low Noise Figure
- Easy Installation

Delivers amplified, noise-free signals to up to 4 TV and FM sets on same antenna.

Low-cost transistorized TV-FM booster for the home. Delivers amplified (3 to 6 times stronger), noise-free signals to up to 4 TV and/or FM sets. All-transistor circuitry assures low power drain, minimum maintenance. Isolated outputs prevent interaction of sets, provide true 300-ohm impedance to each set. Input impedance matched to antenna impedance—no balun needed. Noise figure: minimum 4 db. Easy to install, stripless terminals make solid electrical connection. Needs no adjustment. 1 $\frac{1}{2}$ x6 $\frac{1}{2}$ x3 $\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Wt., 1 lb.

91 C 261. 19.40



NEW!

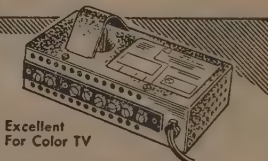
B-33 3-SET AMPLI-COUPLER

\$1333

- Amplifies Antenna Signal
- Increases TV Signal 2 $\frac{1}{2}$ Times
- For up to 3 TV and FM Sets
- Extremely Simple to Install

Budget-priced antenna booster and home distribution system. Operates up to 3 TV and/or FM sets: When used with one TV set, unit more than doubles antenna signal voltage (6 to 8 db); with 3 TV sets, each set receives as much signal voltage as was picked up by the antenna originally. Noise figure: 6 db for low TV band (channels 2-6), 7.5 db for high TV band (channels 7-13). Easy to install; "stripless" terminals make solid electrical connection to 300-ohm line with turn of screw. No baluns needed—input and output impedances both matched to 300 ohms. 2 $\frac{1}{2}$ x6 $\frac{1}{2}$ x3 $\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Wt., 2 lbs.

91 C 416. 13.33



4-SET TV-FM BOOSTER-COUPLER

\$1632

- Efficient Low-Noise Circuit
- Wide Frequency Response
- Use For Both TV and FM

MODEL B24-C Highly efficient—operates up to 4 TV or FM sets. Provides excellent isolation. Boosts signal strength of VHF stations up to 10 db when using just one set, up to 5 db with two sets; gives unity gain with four. Wide response, low-noise broadband circuit requires no tuning. Quickly, easily installed—simply attach to antenna terminals. Chassis may be installed at rear of one of sets. 300-ohm input and output. 3 $\frac{1}{2}$ x6 $\frac{1}{2}$ x2 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 1 $\frac{1}{2}$ lbs.

92 C 342. 16.32

TV CABLE TAPOFF CONNECTORS



MT-11



MIT-4



P59T

MODEL MT-11 TV CABLE TAPOFF. Weather-proof, spliceless tap for use with RG-11/U cable. 17 db isolation. Installation tool. 75-ohm coax output, 6 oz.

93 C 112. 3.87

MODEL MIT-4 COAXIAL TAPOFF. Offers four 75-ohm coax outputs from 75-ohm thru line. Provides 17 db isolation. Thru loss 0.35 db per output used. 4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 $\frac{1}{2}$ ". Shpg. wt., 1 $\frac{1}{2}$ lbs.

91 C 263. 17.15

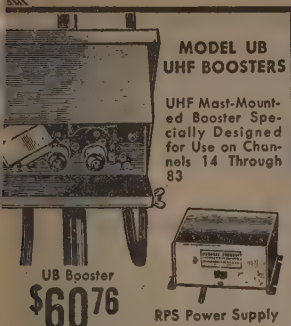
MODEL P-59T MALE CONNECTOR. For use with "Masterline" Model MLA-C signal amplifier. Fits RG-59/U cable, 3 oz.

91 C 438. EACH .98

MODEL P-11S CONNECTOR. As above, but for RG-11/U coax cable.

91 C 075. EACH .98

Distribution Systems and Accessories



MODEL UB UHF BOOSTERS

UHF Mast-Mounted Booster Specially Designed for Use on Channels 14 Through 83

UB Booster

\$6076

RPS Power Supply

- Uses Two UHF Frame-Grid Tubes
- 14 db Gain, Channels 14 Through 83

Antenna-mounted broadband UHF TV boosters. Provide at least 14 db gain on channels 14 through 83. Consist of two individual units—UB Broadband Amplifier and RPS Remote Power Supply. Amplifier is mast-mounted at antenna to eliminate line noise. Has 2 UHF frame-grid tubes for high gain, low noise.

RPS Remote delivers 24 volts DC to amplifier through 300-ohm transmission line. Automatic shut-off feature may be used with any set drawing 135-500 watts. 300-ohm input and output impedances, "stripless" terminals. Sizes: amplifier, $4\frac{3}{4} \times 7 \times 5\frac{1}{2}$ inches; power supply, $2\frac{1}{2} \times 5 \times 4$. For 110-120 v., 60 cycle AC. Wt., 5½ lbs.

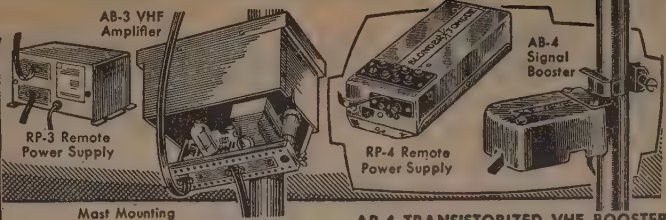
91 C 417. Channels 14-29. 60.76

91 C 418. Channels 25-40. 60.76

91 C 419. Channels 41-55. 60.76

91 C 420. Channels 56-69. 60.76

91 C 264. Channels 70-83. 60.76



AB-3 VHF Amplifier

RP-3 Remote Power Supply

AB-4 Signal Booster

RP-4 Remote Power Supply

Mast Mounting

AB-3 DELUXE TV-FM AMPLIFIER

\$6468

- 25 db Gain on TV and FM Bands
- High Signal-to-Noise Ratio
- Fully Automatic Operation

Antenna mounting VHF amplifier provides 25 db gain on TV channels 2-13 and the FM band. May be mast-mounted on antenna a full mile away from set (when open lead-in is used). Installation of AB-3 amplifier at antenna permits amplification of signals with no increase in line noise from lead-in. Power to amplifier travels through lead-in—no separate power line is needed. Operation is automatic—amplifier turns on and off at RP-3 power supply. 300-ohm input; 300 and 75-ohm outputs. Efficient circuit with 6DJ8 tube provides highest signal-to-noise ratio with maximum reliability. Easy to install. Sizes: amplifier, $7\frac{3}{4} \times 5\frac{1}{2} \times 5\frac{1}{4}$; power supply, $6\frac{3}{4} \times 3\frac{3}{4} \times 4\frac{1}{4}$. For 110-120 v., 60 cycle AC. Wt., 7 lbs.

93 C 359. \$5 Monthly. 64.68

AB-2 VHF BOOSTER

Similar to AB-3 amplifier above, but provides up to 12 db gain on TV channels from 2 through 13. Amplifier may be mast-mounted on antenna up to 500 feet from the RP-2 remote power supply at TV set. Power travels to amplifier through lead-in. Operation is automatic—booster turns on and off at remote, 300-ohm input and output. Sizes: Amplifier, $6\frac{3}{4} \times 3\frac{3}{4} \times 4\frac{1}{4}$; Remote Power Supply, $5\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{3}{4}$. For 110-120 v., 50-60 cycle AC. Wt., 7 lbs.

92 C 545. \$5 Monthly. 34.25

AB-4 TRANSISTORIZED VHF BOOSTER

\$1955

- For Battery Operation
- Circuit Delivers High Gain, Low Noise
- High Signal-to-Noise Ratio

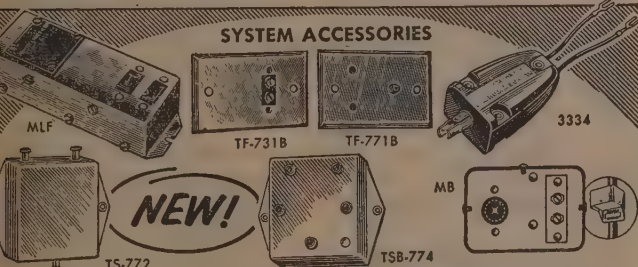
All-transistor VHF TV-FM booster-coupler. Provides brilliant reception of channels 2 through 13 plus the FM band. Amplifies antenna signal up to 5 times. Features high signal-to-noise ratio for best no-snow reception. Extremely light, compact design—must need be no stronger than required to support antenna alone. Maintenance is virtually eliminated—no tubes to burn out. RP-4 remote power supply, shown above, runs on 4 low-cost flashlight cells (listed below). The AB-4 also serves as a 4-set coupler—provides isolation and 300-ohm match for up to 4 TV or FM sets. Average gain: channel 2, 17 db; channel 6, 15 db; channels 7-13, 8.5 db; FM, 12 db. Feature "No-strip" terminals—make solid electrical connection with the turn of a screw—no stripping of insulation needed. Lead-in supplies DC to amplifier, no external wiring necessary. Sizes: Amplifier, $1\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{3}{4}$; Supply, $1\frac{1}{2} \times 3\frac{3}{4} \times 7\frac{1}{4}$. Less batteries, below. Shpg. wt., 1½ lbs.

91 C 148. \$5 Monthly. 19.55

55 J 867. 1½-Volt Batteries. For use in RP-4 Power Supply, above. Shpg. wt., 1¼ lbs. Pkg. of 4. PER PKG. \$26

MODEL ABLE-1 AC BOOSTER. Same as AB-4 booster above, but has power supply that operates from 110-120 v., 60 cycle AC. Shpg. wt., 1½ lbs.

91 C 421. 25.43



SYSTEM ACCESSORIES

MLF

TS-772

TF-731B

TF-771B

3334

MB

TSB-774

NEW!

MODEL MLF AC LINE FILTER. 60-db RF line-amplifier isolation. 2 AC receptacles. Surface mtg. $5\frac{1}{2} \times 2 \times 1\frac{1}{2}$. ½ lb.

91 C 267. 12.20

MODEL TF-731B FEED-THRU OUTLET. Flush-mounting box. Single 300-ohm output from through thru line. 17 db isolation. 0.7-db return loss. $4\frac{1}{2} \times 2\frac{1}{2} \times 4\frac{1}{2}$. ½ lb.

91 C 268. 1.96

MODEL TF-731 OUTLET. As above, but surface mtg. $2\frac{1}{2} \times 2\frac{1}{2} \times 4\frac{1}{2}$. Shpg. wt., ½ lb.

91 C 269. 2.20

MODEL TF-771B FEED-THRU OUTLET. Flush-mounted box. 75-ohm output from 75-ohm line. Same specs. as TF-731B.

91 C 270. 2.20

MODEL TSB-774 MATCHING TRANSFORMER. For indoor use. Matches 75-ohm lines to 300-ohm inputs. Motorola-type jack input. Surface mtg. $2\frac{1}{2} \times 1\frac{1}{2} \times 1$. Wt., ¼ lb.

91 C 402. 1.81

MODEL TS-772 SPLITTER. For indoor use. Splits 75-ohm coaxial cable (such as RG-59/U) into two separate 75-ohm coaxial transmission lines. Unit is low-loss "hybrid" type. Can also be used to combine two coaxial cables into single cable. $2\frac{1}{2} \times 1\frac{1}{4}$. Shpg. wt., 8 oz.

91 C 422. 3.38

MODEL TSB-774 SPLITTER. Similar to Model TS-772 splitter described above, but splits 75-ohm coaxial cable into four separate 75-ohm coaxial lines. For indoor use only. $2\frac{1}{2} \times 1\frac{1}{4}$. Shpg. wt., 8 oz.

91 C 423. 4.90

MODEL MB MATCHING TRANSFORMER. Weatherproof VHF and FM balun for installation outdoors on antenna mast or boom. Changes balanced 300-ohm impedance to 75 ohms for use with unbalanced coaxial transmission lines. Size, $3\frac{1}{4} \times 2\frac{1}{2} \times 6\frac{3}{4}$. Shpg. wt., ½ lb.

91 C 271. 5.88



NEW! ABLE-2 BOOSTER

\$2817

Power Supply

Mast Mounted Booster

- Powerful 2-Transistor Circuit
- Low Power Drain; Minimum Maintenance
- Operates up to 3 TV and/or FM Sets

Delivers sharp, clear reception to as many as 3 TV or FM sets. Brings in weak channels without overloading strong ones. Increases signal voltage up to 8 times for one set; 5 times for 2 sets; 3 times for 3 sets. Features include: low power drain, low noise, less heat dissipation, no tubes to replace. Amplifier mounts on any mast in seconds; remote power supply located at set sends 15 v. DC to amplifier on same twinline, carrying signal. 300-ohm balanced input and output. Sizes, each unit, $1\frac{1}{2} \times 2\frac{1}{2} \times 4\frac{1}{4}$. For operation from 105-130 v., 50-60 cycles AC. Shpg. wt., 1¼ lbs.

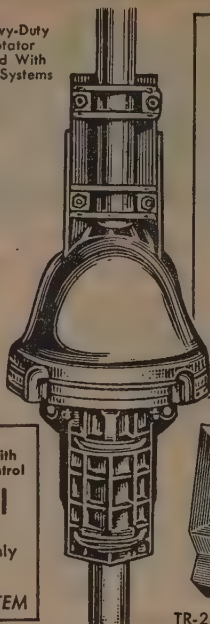
91 C 424. 28.17

Heavy-Duty
Rotor
Used With
Both Systems

FOR
BETTER "ALL
AROUND"
VIEWING

The last word in precise, convenient directional control. Gives you the best tuning possible in all TV viewing areas.

Your Choice—Completely
Automatic or Manual Systems



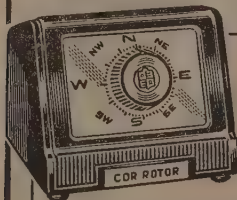
CDR Heavy Duty Rotator

This heavy-duty rotator is used with AR-22 and TR-2A systems. For TV antennas weighing up to 150 lbs. Suitable for mast, tower or platform mounting. Heavy-duty precision gears hold even large TV arrays steady in high winds. Rotator unit employs twelve large ball-bearings in two 6 1/2" faces. Motor reverses instantly—never drags or coasts. Positive magnetic braking prevents overshoot. Has die-cast and heavily reinforced housing. Weather-sealed and factory lubricated for life. Reversible clamps on rotator unit take masts from 7/8" to 2" outer diameter.

USE WITH ANY ANTENNA

✓ TV-FM ✓ Amateur ✓ Citizens Band

Heavy load capacity (up to 150 lbs.) and sturdy, weather-proof construction make this heavy-duty rotator ideal for Amateurs and Citizens Banders as well as TV-FM owners. Brakes lock rotator against heavy winds.

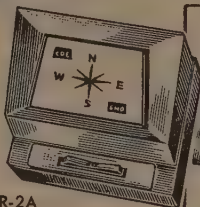


Rotator with
AR-22 Control

\$31.31

\$5 monthly

OUR MOST POPULAR SYSTEM



TR-2A

AC-122 ULTRA-SONIC REMOTE CONTROL PACKAGE

AK-122

\$40.42

\$5 monthly



Operate your rotor from the comfort of your armchair. Cordless AK-122 remote actuator operates TR-2A control unit at left, through amplifying relay switch box included. TR-2A plugs into amplifying box—no wiring necessary. Press button on actuator, and rotor turns antenna. When TV picture reaches desired clarity, press button to stop rotor. For 110-120 v., 60 cycle AC, 4 lbs. 91 C 273, \$5 Monthly.. 40.42

AR-22 AUTOMATIC ROTATOR SYSTEM

\$31.31

- Set the Pointer—Unit Does the Rest
- Positive, Magnetic Braking

Our most popular system, featuring heavy-duty antenna rotator and AR-22 fully automatic control unit. Use it with antennas weighing up to 150 lbs. Extremely simple to operate: just set control unit pointer to desired direction—weather-sealed motor rotates antenna to this position and stops. Magnetic brake prevents overshoots. Dial is marked in 8 compass points: N, S, E, W, NW, NE, SW and SE. Control unit cabinet of attractive brown plastic, with rubber feet to protect TV set finish. Requires 4-wire cable. Takes up to 2" masts. For 110-120 v., 50-60 cycle AC, 14 lbs. 92 CX 150, \$5 Monthly.. 31.31

TR-2A MANUAL ROTATOR SYSTEM

\$26.41

- Convenient Fingertip Control
- Usable with Remote Control
- Light-up Direction Indicator

Features heavy-duty rotator, same as used with AR-22 at left, and TR-2A illuminated compass-type control box. Operate directly—or from your armchair by optional ultra-sonic AK-122 remote control (described at right). For direct operation, simply depress bar lever on control box to start antenna moving, stop it, or reverse direction—responds instantly. Illuminated letters indicate direction antenna is traveling. Has attractive, shock-proof plastic cabinet. Less cable; requires 8-conductor cable below, right. Takes up to 2" masts. For 110-120 v., 50-60 cycle AC, 16 lbs. 92 CX 472, \$5 Monthly.. 26.41

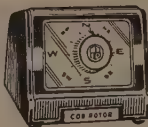
NEW! CDR ECONOMY ROTATOR SYSTEM

AR-1 COMPLETELY AUTOMATIC ROTOR WITH SET-AND-FORGET CONTROL BOX

\$26.41

\$5 monthly

- Takes Masts To 1 1/2" Diameter
- Rotates 360° in 45 Seconds
- Instant Locking and Reverse
- Handles Up To 50 lbs.



CDR
Custom
Rotator

A low-cost antenna rotator system featuring the automatic control unit and economy rotator. Has instant locking to prevent drift, instantly reversible rotation and mechanical brake that releases magnetically. Handles 50-lb. load with ease. Quick-mounting—no loose parts to assemble. Self-centering clamps take masts up to 1 1/2" in diameter; rotor fits all standard towers. Makes complete 360° rotation in just 45 seconds. One-dial control unit, designed for simple operation, can be set for any of 60 positions. Uses 4-wire cable. For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs. 92 CX 511, \$5 Monthly.. 26.41

CABLES FOR CDR ROTATORS

4-CONDUCTOR CABLE. For use with AR-22 and AR-1 rotator systems. left. Shpg. wt., per 100 ft., 3 lbs. 97 T 365, 100-ft. coil.. 2.78

47 W 576, Over 100' PER FOOT .03

8-CONDUCTOR CABLE. For use with TR-2A rotator control unit listed above left. Handles current for both rotor and illumination circuits. Shpg. wt., per 100 ft., 5 lbs. 47 T 586, 100-ft. coil.. 4.20

47 W 593, Over 100' PER FOOT .05

CREDIT FUND PLAN

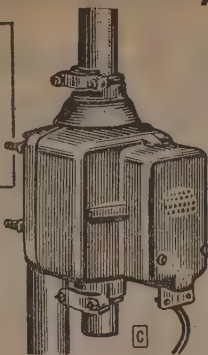
Don't put off buying the rotator you need now, for lack of ready cash. Allied's Credit Fund Plan lets you buy anything in this catalog for no money down, and gives you up to 24 months to pay. You have over 50% more buying power. See page 433 of this catalog for full details.

Television Antenna Rotators by

alliance

WHY AN ANTENNA ROTATOR?

Your antenna is always pointed in the proper direction with an antenna rotator. It allows you to reduce interference and enhance the range and performance of your set. Antenna mast clamps into electrically driven rotator shaft. Rugged, weather-proof rotator connects to control unit. Control unit instantly rotates antenna in either direction—you select exact point for "peaked" reception. You get sharper, brighter images!



FOR
BETTER "ALL
AROUND" VIEWING

Get maximum signal strength with minimum effort—the clearest picture possible!

"Direction Makes the Difference"

A C K-22 ECONOMY SYSTEM

- Weather-Sealed Rotor
- Stays Fixed—No Drifting
- Fingertip Operation

\$19.98
easy-duty rotor with touch-bar control. Permits clockwise and counter-clockwise antenna rotation—with only light pressure on right or left side of tilting touch-bar, down lever until you obtain the clear picture possible, then release bar to stop antenna instantly. Remains fixed without drifting. Center disc on control unit lights indicate when antenna rotation limit is reached. Complete with rotor, mahogany style control unit. Less 4-wire cable, below. Operation from 110-120 v., 60 cycle AC. Shpg. wt., 12 lbs.
91 C 338..... **18.98**

B C NEW! T-20 MANUAL SYSTEM

- Sturdy, Heavy-Duty Rotor
- Instant Reverse Action
- Stylish Control Unit

\$23.55
Heavy-duty antenna rotor with stylish, meter-type control box. Touch-bar on top of control unit permits instant forward or reverse action. Depress right end of bar, antenna rotates clockwise; depress left end of bar, counter-clockwise. Meter pointer indicates antenna direction as it rotates. When you obtain desired picture clarity, release pressure on bar to stop antenna. Attractive mahogany plastic case, $4\frac{1}{2} \times 6\frac{1}{2} \times 2\frac{1}{2}$ ". Less 4-wire cable, below. For 110-120 v., 50-60 cycle AC, 12 lbs.
91 C 400. \$5 Monthly..... **23.55**
91 C 401. With Ivory Case..... **24.53**

C D U-100 AUTOMATIC SYSTEM

- Weather-Proofed Rotor
- Set the Dial—Antenna Stops Automatically

\$28.20
An exceptionally rugged unit to point antenna in any direction for maximum signal strength. 8 compass points—just set the dial—antenna stops when desired direction is reached. Compact rotor ($7\frac{1}{4} \times 5\frac{1}{4} \times 3$), weather-sealed and factory lubricated for life. 1-rpm motor reverses instantly; magnetic brakes prevent overshoot and drifting. Automatic control unit has mahogany plastic cabinet, $7\frac{1}{4} \times 4\frac{1}{4} \times 4$ ". Less 4-wire cable, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.
92 C 442. \$5 Monthly..... **28.20**
92 C 443. Above, but Ivory Case..... **29.18**

4-WIRE ROTATOR CABLE

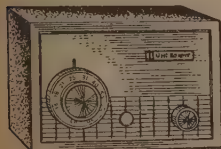
Use with all Alliance rotators listed above. Four No. 20 gauge conductors. Shpg. wt., 100 ft., 3 lbs.
T 365. 100-Ft. Coil..... **2.78**
W 576. Over 100 Ft. **PER FOOT .03**

MODEL TBB2 THRUST BEARING BRACKET

Use with heavier type antennas. Minimizes strain on rotators by relieving them of antenna weight. Protects gears against severe lateral strain. 3 lbs.
91 C 246..... **2.91**



BLONDER TONGUE POPULAR UHF CONVERTERS AND BOOSTERS



UTB-1
\$23.62



BTU-2T
\$27.95



BTC-99S
\$18.96

UTB-1 TUNABLE UHF BOOSTER

Adds Up To 15 Miles to UHF Reception Range. Perfectly Matched 300-Ohm Input and Output. Attractive Cabinet Complements Any TV Set. Works with any converter and UHF TV set. Multiplies antenna voltage (10 db gain) to improve UHF reception on channels 14-83—adds up to 15 miles to your UHF range. A turn of the dial pinpoints the desired channel, brings it in sharp and clear. Amplifies signal before conversion for the best possible signal-to-noise ratio. Also features extremely low noise figure and a tuned output. AC convenience receptacle and stripless 300-ohm terminals make it a snap to install. Handsome modern cabinet, $6\frac{1}{4} \times 4\frac{1}{2} \times 2\frac{1}{2}$ ". U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.
C 439D. \$5 Monthly..... **23.62**

BTU-2T CONVERTER/BOOSTER

- Amplifies TV Signals Almost 3 Times
- At Least 8 db Gain on All UHF Channels
- Stripless Terminals for Easy Installation

Adds all channels (14 to 83) to your present TV receiver—even in the most difficult reception areas. Amplifies TV signals almost 3 times stronger. Features low noise, frame-grid amplifier; double tuned UHF inputs and shielded oscillator section for drift and distortion-free performance. Dual-speed channel selector and vernier tuning. Has silver plated contacts for least possible noise. 300-ohm balanced input and output. Smartly styled cabinet, $6\frac{1}{4} \times 5\frac{1}{4} \times 4\frac{1}{4}$ ". Pilot light and convenience outlet. For operation from 110-120 v., 60 cycle AC. U.L. Listed. Shpg. wt., $4\frac{1}{2}$ lbs.
91 C 364D. \$5 Monthly..... **27.95**

BTC-99S UHF CONVERTER

- Designed Specifically for Prime Signal Areas
- Fine-Line Cabinet Adds to Decor of Any Room
- Pinpoints Any UHF Channel for Best Reception

Adds all UHF channels (14 to 83) to channel 5 or 6 of your present TV set. Designed to give you sharp, undistorted pictures in prime signal areas (within 20 miles of TV station). Has double tuned UHF input and shielded oscillator section for drift and distortion-free signals, plus a dual-speed channel selector with vernier tuning that makes it easy to pinpoint any UHF channel. 300-ohm balanced input and output with precise impedance match. Stripless terminals for easy installation. Beige cabinet, $6\frac{1}{4} \times 5\frac{1}{4} \times 4\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. U.L. Listed. Shpg. wt., $3\frac{1}{2}$ lbs.
91 C 356D..... **18.96**

Antenna Towers, Installing Accessories

SPAULDING "STRATO-TOWERS"

A SERIES XCB CYLINDER BASE TV TOWERS

Need No Concrete Foundation—Set into Cylinder Base

Lightweight, high-strength, self-supporting towers. Assemble on ground or vertically. Special "culvert base" for quick, one-man installation. All-riveted 100% galvanized steel. Top holds any rotor. With base, adjustable hinge feet, 8-ft. mast, listed quantity of factory-assembled 8-ft. tower sections.

Stock No.	Mfr's Type	Ant. Ht.	Sections	Wt., Lbs.	EACH
92 CZ 294	X28CB	23'	2	89	39.20
92 CZ 295	X36CB	31'	3	120	59.69
92 CZ 058	X44CB	39'	4	155	68.07
92 CZ 059	X52CB	47'	5	200	83.20
91 CZ 832	X60CB	55'	6	272	96.65

as low as
\$39.20

as low as
\$16.89

B SERIES EP "ECONOMY-PACK" TV TOWERS

Easy to Install on Ground or Roof-Top

Include listed quantity of 8-ft. zinc-plated steel tower sections, ground plate with stakes, 8-ft. mast kit. Mount with house bracket or roof mount (not supplied), below. Require guying if roof-mounted or over 16 ft. above house bracket.

Stock No.	Type	Ant. Ht.	Sections	Lbs.	EACH
92 CZ 542	EP-1	14'	1	25	16.89
92 CZ 541	EP-2	22'	2	41	24.84
92 CZ 540	EP-3	30'	3	56	31.26
92 CZ 535	EP-4	38'	4	72	39.08
92 CZ 534	EP-5	46'	5	88	46.91
92 CX 543	EP-R1	Roof Base		2	3.10
92 CX 544	EP-H1	House Bracket		5	3.90

Note

Spaulding towers are shipped truck F.O.B. Frankfort, Indiana, No. C.O.D. orders—send full remittance with order. Also send full shipping address—no Post Office box numbers if possible. Shipping charges collected on delivery.

SPAULDING

SERIES RM ROOF MOUNT TOWERS

as low as
\$6.74

- Fit Any Roof
- Easy to Install
- Long Lasting

Self-supporting; need no guys when anchored to roof. 3 hinged feet fit any roof; antenna is assembled and "walked-up" into place. Galvanized, beaded steel channel withstands rough weather. Packages include tower with mast and mast kit (RM4 and RM8 less mast). Mast recesses 2 feet into tower. Permit antenna heights of 10 ft. or 14 ft. above roof. Shipped knocked down, assemble easily. With instructions.

92 CZ 358.	RM4-8, 4-ft. tower, 8-ft. mast, mast kit. 23 lbs.	8.99
92 CZ 359.	RM4, 4-ft. tower, mast kit. 16 lbs.	6.74
92 CZ 364.	RM8-8, 8-ft. tower, 8-ft. mast, mast kit. 35 lbs.	14.93
92 CZ 365.	RM8, 8-ft. tower, mast kit. 28 lbs.	12.68

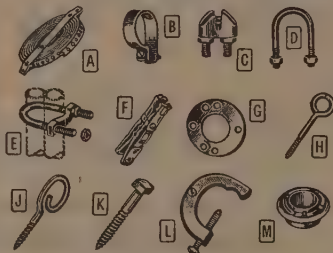
TV ANTENNA INSTALLATION KIT



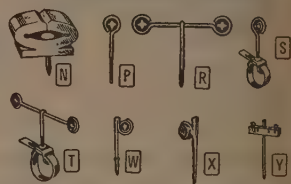
With
Masts
\$3.27

Three 3-ft. galvanized steel mast sections; 100-ft. of twin line; lightning arrestor, 5 screw-in and 2 mast stand-offs; 20-ft. ground wire, instructions. Shpg. wt., 7 1/4 lbs.
92 CX 018.....3.27

TV ANTENNA INSTALLATION ACCESSORIES



STAND-OFF INSULATORS



A HANGER STRAP. Mounts masts to odd-shaped objects. 3/4" perforated galvanized steel strapping. 12' coil. 1 lb.
91 C 107.....EACH 35¢

B RING CLAMP. Supports guy ring on mast. Corrosion-resistant steel. Provides slip-proof grip. Fits mast O.D. shown below. Pkg., 3 oz. 5 per pkg.
91 C 120, 3/4".....PER PKG. 25¢
91 C 121, 1".....PER PKG. 26¢

C CABLE CLAMP. Provides non-slip grip on guy wire ends. Fits cables to 3/8" dia. 1/4x 3/16". Pkg., 4 oz. 2 per pkg.
91 C 404.....PER PKG. 28¢

D U-BOLT. Galvanized steel. With nuts and washers. Fits masts to 1 1/2" O.D. Pkg. wt., 4 oz. 2 per pkg.
91 C 122.....PER PKG. 19¢

E MAST CLAMP. Tight-grip yoke. For 2 masts, max. O.D. 1 1/8" each. Galvanized steel. Pkg., 4 oz. 2 per pkg.
91 C 123.....PER PKG. 34¢

F ANTENNA CLIP. Clips lead-in to antenna terminals. Pkg., 10 oz. 4 per pkg.
91 C 405.....PER PKG. 39¢

G GUY RING. Rests on ring clamp. For 1 1/4" O.D. masts. Pkg., 10 oz. 5 per pkg.
91 C 124.....PER PKG. 30¢

H CLOSED HOOK EYE. Anchors guys. 5" long. Pkg., 10 oz. 5 per pkg.
91 C 126.....PER PKG. 23¢

J OPEN HOOK EYE. Anchors guy wires. Screws into wood. Galvanized steel. Pkg., 10 oz. 5 per pkg.
91 C 125.....PER PKG. 22¢

K LAG BOLTS. Heavy cadmium-plated steel. 1/4" diameter shank. Rigidly secure mounts, bases, etc. to wood, brick and other surfaces. Pkg., 5 oz. 10 per pkg.
91 C 117, 1 1/2" Long.....PER PKG. 42¢
91 C 118, 2" Long.....PER PKG. 47¢

L GROUND CLAMP. For secure connection to water pipes up to 1 1/4" dia. Screw terminal for ground wire. 4 oz.
91 C 433, Pkg./2.....PER PKG. 24¢

M FLOATING GUY RING. Cast aluminum. Fastens with set screw. Permits guyed mast to be rotated. Takes 3 or 4 guys on any mast to 1 1/8". 8 oz.
91 C 244.....EACH 1.15
91 C 245. As above, but for masts up to 1 1/4" O.D. Wt., 9 oz. 2.....EACH 1.21

N WALL STAND-OFFS. Secure twin-lead to baseboards, walls, etc. Pack-in type. Pkg., 10 oz. 10 per pkg.
91 C 119.....PER PKG. 44¢

P UNIVERSAL STAND-OFFS. For any TV lead-in. Polyethylene insulation. Screw-in type. Pkg., 10 oz. 5 per pkg.
91 C 127, 3 1/2" Long.....PER PKG. 14¢
91 C 128, 5 1/2" Long.....PER PKG. 17¢
91 C 129, 7 1/2" Long.....PER PKG. 23¢

R DOUBLE STAND-OFFS. Wood-screw type holds two leads. For any TV lead-in. Pkg., 10 oz. 5 per pkg.
91 C 132, 3 1/2" Long.....PER PKG. 47¢
91 C 133, 5 1/2" Long.....PER PKG. 52¢
91 C 134, 7 1/2" Long.....PER PKG. 54¢

S STRAP-TYPE SINGLE STAND-OFFS. Mount on mast. For any lead-in. Fits up to 3" masts. Pkg. wt., 6 oz. 3 per pkg.
91 C 137, 3 1/2" Long.....PER PKG. 23¢
91 C 138, 5 1/2" Long.....PER PKG. 24¢
91 C 139, 7 1/2" Long.....PER PKG. 31¢

T STRAP-TYPE DOUBLE STAND-OFFS. As above, but hold two lead-ins. Clamp up to 3" mast. Pkg., 8 oz. 3 per pkg.
91 C 135, 3 1/2" Long.....PER PKG. 33¢
91 C 136, 7 1/2" Long.....PER PKG. 48¢

W DRIVE-IN STAND-OFFS. For all types lead-in. 3 1/2" long. Pkg., 5 oz. 5 per pkg.
91 C 130.....PER PKG. 17¢

X UNIVERSAL HOT NAIL STAND-OFFS. For any lead-in. Hold in wood, mortar or brick. Need no starting hole. 3 1/2" long. Pkg., 4 oz. 5 per pkg.
91 C 131.....PER PKG. 42¢

Y OPEN LINE STAND-OFFS. Slotted for 300, 450 or 600-ohm lines. 5 1/2" nail-type. Pkg., 5 oz. 5 per pkg.
91 C 141.....PER PKG. 68¢

TV Antenna Mounts and Accessories

TELCO TV ANTENNA MOUNTS

Type 9127
Chimney
Mount

A \$175

GC-TELCO

Type 9063
Antenna
Base

As Low As
\$270 B

ANTENNA MOUNTS AND BASES

A 9127 CHIMNEY MOUNT. Sturdy mount for economy antenna systems. Has stainless steel strappings. Brackets are heavy-gauge steel, zinc-plated and dichromate-dipped for long life. Can be installed in minutes. Withstands high wind and most severe weather conditions. Easily adjusted for snug, firm grip. For masts up to 1 1/2". With 2—10-ft. straps and hardware. Shpg. wt., 4 lbs.

91 C 113.....1.75

B 9063 ANTENNA BASE. For masts of 10 ft. or more and up to 1 1/2" O.D. Eliminates guy wires in most installations. Set-screws anchor mast and permit orientation. Electro-galvanized and dichromate-dipped. 2 ft. high. Shpg. wt., 6 1/2 lbs.

92 CX 040.....2.70

C 92 CX 043, 9144 Base. As above, 3 ft. high; made of 1" electro-galvanized steel tubing. Shpg. wt., 8 1/2 lbs.

92 CX 044, 9143 Base. Like Type 9144, but 15 ft. high. 15 lbs.

92 CX 044.....6.30

D 8803 VENT PIPE MOUNT. Clamps to any pipe or vent from 4" to 6" in diameter. Perfect for antenna installations where chimney is inaccessible. Heavy-gauge steel. For all masts up to 1 1/4" diameter. Zinc-plated and dichromate-dipped for rust protection. 2 per pkg. 3 lbs.

91 C 351.....PER PKG. 1.20

E 9060 "NO-GUY" ROOF MOUNT. Steel and cast-iron base for up to 10-ft. mast. Needs no guys. Legs adjust to roof angle. For masts to 1 1/2" dia. 5 lbs.

91 C 251.....2.47

F 8308 SNAP-IN WALL MOUNT. Secures mast 8" from wall. Mast snaps in. Heavy-gauge plated steel. One-man installation. For masts to 1 1/4" O.D. 2 per pkg. 4 lbs.

91 C 250.....PER PKG. 1.50

G 91 C 249, Type 8306. As above, holds mast 6" from wall. 2 1/2 lbs.

8324 HEAVY-DUTY MOUNT. Above, holds mast 24" from wall. Bracket legs spaced 16" apart to match studs of homes. Heavy-gauge steel zinc-plated and dichromate-dipped. For masts to 1 1/4" O.D. 10 lbs.

92 CX 130.....3.58

H 92 CX 129, Type 8318. Above, 18" wall clearance. 7 lbs.

91 C 256, Type 8312. Above, 12" wall clearance. 5 lbs.

92 CX 504.....1.67

I 8933 EAVE MOUNT. Mounts antenna mast on building eaves. 48" lower bracket straddles building. Top bracket mounts on peak. Zinc-plated and dichromate-dipped. For masts to 1 1/4" O.D. 7 lbs.

92 CX 504.....3.58

J 8932 CHIMNEY MOUNT REPAIR KIT. 2—12-ft. stainless-steel straps with eye bolts, nuts, clamps. 2 lbs.

91 C 114.....1.33

K 8930 CHIMNEY MOUNT. Snap-in type. For masts to 1 1/4" O.D. Steel brackets zinc-plated, dichromate-dipped. 2—12-ft. stainless-steel straps. 4 lbs.

91 C 242.....1.99

L 9021 HINGED ROOF MOUNT. For peaked or flat roofs, walls. Extra heavy-gauge steel. For masts to 1 1/2". 3 lbs.

91 C 381.....1.08

TELESCOPING TV ANTENNA MASTS



20-Ft. Mast \$430

50-Ft. Mast \$1335

50-FT. MAST. Heavy-duty telescoping mast of high-carbon steel. Ideal for any television array. Designed for exceptionally easy installation. Husky bolts and cotter pins lock each section in place. 18-20 gauge high-carbon steel tubing with 1/4-oz. per inch zinc plating inside and out. Consists of 5—10-ft. sections; O.D.: #1 (1 1/4"), #2 (1 1/2"), #3 (1 3/4"), #4 (2"), #5 (2 1/4"). Floating guy-ring permits rotating mast and antenna for best reception. Supplied with all hardware and assembly instructions. 39 lbs.

92 CZ 103.....13.35

40-FT. MAST. Consists of 4 rugged sections (see sizes listed above): Nos. 1, 2, 3, and 4. Maximum height, 40 feet. Shpg. wt., 29 lbs.

92 CZ 102.....9.75

30-FT. MAST. Consists of 3 rugged sections: Nos. 1, 2, and 3 described above. Maximum height, 30 feet. Shpg. wt., 21 lbs.

92 CZ 101.....6.95

20-FT. MAST. Consists of 2 sections: Nos. 1 and 2, above. Max. height, 20 feet. 14 lbs.

92 CZ 100.....4.30

ANTENNA MAST SECTIONS

Strong, seamless electro-galvanized steel masts with swaged ends. 1 1/4" O.D.

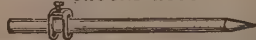
Stock No.	Height	Wall	Wt.	EACH
92 CX 084	5 ft.	.035"	3 lbs.	.74
92 CX 119	5 ft.	.051"	4 lbs.	.99
92 CZ 274	10 ft.	.035"	5 lbs.	1.33
92 CZ 335	10 ft.	.051"	7 lbs.	1.99

UNIVERSAL SWIVEL MOUNT

Heavy-duty mount for above telescoping masts. Use on flat, slanted or peaked horizontal or vertical surfaces. For masts up to 2 3/8" O.D. 2 1/2 lbs.

92 C 536.....1.25

GROUND RODS



Selection of low-cost ground rods. Constructed of moisture-resistant, copper-plated steel to assure a low resistance contact with earth. Complete with clamp. With bolt. Shipped by Express or Freight only.

Stock No.	Size	Shpg. Wt.	EACH
92 CX 537	4"x3/4"	1 1/2 lbs.	.52
92 CU 538	6"x3/4"	2 1/4 lbs.	.75
92 CU 539	8"x1/2"	5 lbs.	1.52

GROUND AND GUY WIRE

ALUMINUM GROUND WIRE. No. 8 solid wire. For all grounding applications.

Stock No.	Coil Length	Wt., Lbs.	NET
49 T 653	50-ft.	1 1/2	.65
49 T 650	100-ft.	2 1/4	1.25
49 TU 652	1000-ft.	26	11.98

NO. 20 GALVANIZED GUY WIRE. 6-strand wire in 100-ft. or 1000-ft. rolls.

58 T 312, 100-Ft. Roll. 2 lbs.....64¢

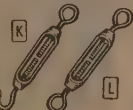
71 TU 513, 1000-Ft. Roll. 20 lbs.....6.38

NO. 18 GALVANIZED GUY WIRE. For heavy-duty use. 100-ft. or 1000-ft. rolls.

51 T 319, 100-Ft. Roll. 2 1/2 lbs.....94¢

71 TU 545, 1000-Ft. Roll. 25 lbs.....8.74

HEAVY-DUTY ALUMINUM GUY WIRE TURNBUCKLES



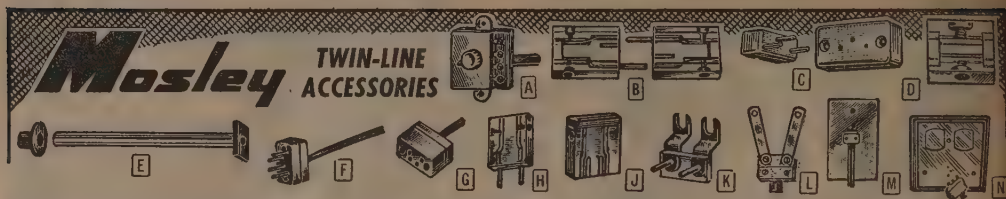
Stock No.	Fig.	Closed	Open	PER PKG.
91 C 407	K	5 1/2"	7 5/8"	.66
91 C 408	K	6 3/4"	9 1/4"	.99
91 C 409	K	7 1/2"	10 1/2"	1.39
91 C 410	L	5 1/2"	7 5/8"	.66
91 C 411	L	6 3/4"	9 1/4"	.99
91 C 412	L	7 1/2"	10 1/2"	1.39

Note

Antennas, Towers or Masts with U or Z in Stock No. Shipped Separately by Express or Truck Only From Our Maywood, Illinois Warehouse.

Provide easy adjustment of guy-wire tension. Heavy-duty cast aluminum. Fig. L for use where quick removal not required. Other types easily disconnected. Pkg., 8 oz. 4 per pkg.

TV Installation and Servicing Accessories



A TYPE F-40 2-WAY ANTENNA SWITCH. Selects either of 2 antennas. Maintains 300-ohm impedance. 8 oz.
91 C 013, Brown plastic case.
91 C 014, Ivory plastic case...EACH 2.38

B TYPE 321 TWIN-LINE CONNECTOR. Low-loss polystyrene solderless connector for extending 300-ohm twin-line leads. Plugs are polarized for proper matching. Length, 1 3/4". Shpg. wt., 2 oz. 2 per pkg.
91 C 425.....PER PKG. 1.02

C TYPE 343-PK TRANSMISSION-LINE SOCKETS WITH PLUG. Mounts on Type 625 Wall-Thru insulator, below. With solderless twin-line plug and mounting screws. Shpg. wt., 2 oz.
91 C 005, Brown plastic.
91 C 004, Ivory plastic.....EACH 52¢

D TYPE 27-S FLAT-LINE POLYSTYRENE SPICER. Strip wires, insert, and tighten screws for positive contact. 3/4x3/4x1/4". Wt., 2 oz. 2 per pkg.
91 C 426.....PER PKG. 26¢

E TYPE 625 WALL-THRU INSULATOR. For twin-line or RG59/U coax. Fits walls up to 13" thick. Includes polystyrene tube 14" long, inside plate and outside cap. Socket 343-PK (above) may be installed on inside plate, 1 lb.
91 C 018, Brown plastic ends.
91 C 022, Ivory plastic ends.....EA. 1.26

F LINE PLUGS. Solderless. For 2 or 4-wire, flat or round cable. 2 oz. *Pkg. of 2.

Stock No.	Type	Description	EACH
91 C 427	303*	For 2-wire cable	54¢
91 C 019	374	For 4-wire cable	55¢

G TYPE 364 LINE SOCKET. Accepts 303 or 374 plugs above. Solderless, 2 oz.
91 C 020.....63¢

H TYPE 301 PLUG. For connecting lead-in to set or booster. Polystyrene. Fits socket below. 2 oz. 2 per pkg.
91 C 428.....PER PKG. 94¢

J TYPE 311 SOCKET. Use with plug above. Polystyrene. 2 oz. 2 per pkg.
91 C 429.....PER PKG. 73¢

K TYPE 304 CONNECTOR. Fits antenna terminals. Accepts 311 above. Shpg. wt., 2 oz. 2 per pkg.
91 C 430.....PER PKG. 57¢

L TYPE 263S "Y-TY." Solderless strain-relief connector. 4" wide. 6 oz.
91 C 024.....51¢

M TYPE F-1PK FLUSH SOCKET AND WALL PLATE. For TV or FM sets using twin line. Polystyrene socket; plastic plate. Fits standard outlet box. With plug, mtg. brackets. 6 oz.
91 C 011, Brown.
91 C 010, Ivory.....EACH 1.04

TYPE F-11PK DUAL FLUSH SOCKET AND WALL PLATE. Similar to F-1PK (below, left), but for 2 connections. With plug. 6 oz.
91 C 009, Brown.
91 C 008, Ivory.....EACH 1.11

TYPE F-111PK TRIPLE FLUSH SOCKET AND WALL PLATE. As above, but for 3 line connections. With plug. Wt., 6 oz.
91 C 015, Brown.
91 C 016, Ivory.....EACH 1.73

TYPE F-14PK COMBINATION FLUSH SOCKET AND WALL PLATE. Above, for one twin line, 4-wire cable. With plugs. 6 oz.
91 C 007, Brown.
91 C 006, Ivory.....EACH 1.82

TYPE F-114PK COMBINATION FLUSH SOCKET AND WALL PLATE. As above, but for 2 twin lines and 4-wire rotator cable. With plugs. 8 oz.
91 C 025, Brown plastic.
91 C 026, Ivory plastic.....EACH 3.37

N TYPE AC-1PK AC-TV WALL PLATE SOCKET. Duplex AC receptacle cover plate with built-in twin-line socket. With plug. Ivory finish. Shpg. wt., 2 oz.
91 C 002.....1.79

TYPE AC-14PK WALL PLATE SOCKET. Duplex AC receptacle cover plate with built-in sockets for twin line and 4-wire rotor cables. With plugs. Ivory finish. 2 oz.
91 C 003.....2.15

G-C 25-898 TUBE-SAVER

Makes Tubes Last Longer!

Effective device to extend life of tubes in TV sets, radios, hi-fi systems and other electronic apparatus

Protects tubes against voltage surges. Plugs into AC outlet—set plugs into tube-saver. 2 1/2x2 1/2x1 1/4". 110-275 watts. For 110-120 v., AC-DC. Wt., 7 oz.

91 C 210.....3.23

91 C 211, Model 25-900. As above, but for color TV sets. Rated at 250-400 watts. Wt., 12 oz.....3.89

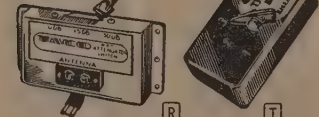


R TACO MODEL 835 SELECTIVE ATTENUATOR. Cuts down strong TV or FM signals—reduces distortion caused by over-driving. Positions: 0 db for normal reception; 15 db for minimum; 30 db for maximum. 300-ohm impedance. Size, 4 1/2x2 1/4". Shpg. wt., 5 oz.
92 C 046.....2.97

S SUPEREX "CLEAR-PIX" INTERFERENCE FILTERS. Designed to minimize or eliminate TV interference from Amateur transmitters in the 21-21.45 mc band, ignition, CB and FM. For any TV set using 300-ohm twin line. Av. wt., 5 oz.

Stock No.	Mfr's Type	Interference Used For	EACH
91 C 066	CPH	21 mc Amateur	1.17
91 C 068	CPF	Strong FM station	
91 C 067	CPI	Ignition or similar	
91 C 065	CPC	Citizens Band	

T JFD MODEL AS3 ANTENNA SWITCH. 300-ohm constant-impedance rotary switch with low-loss silver contacts. Selects any one of up to 3 antennas. Plastic case. Screw terminals for easy installation. 1 3/4x5x2". Wt., 2 lbs.
91 C 112.....2.91



P R. L. DRAKE TV-300-HP HIGH-PASS FILTER. Popular, easy-to-attach filter reduces or eliminates TV interference caused by nearby police, Amateur, Citizens Band, diathermy and other signals. Attaches to antenna terminals on back of set. Provides over 40 db attenuation from 0 to 52 mc—effective in rejecting Amateur 6-meter interference. Fully shielded. For any TV set using 300-ohm twin line. Installs in minutes. 2 1/2x2 1/2x1 1/4". Shpg. wt., 8 oz.
91 C 160.....3.97

W EBY K-302 CRT EXTENSION HARNESS KIT. Simplifies service jobs—expedites testing of any black-and-white picture tube. Consists of 3-ft. anode extension harness; 4-ft. CRT socket harness for both electrostatic and magnetic tubes; 3-ft. yoke extension harness for sets using octal plug and socket. 10 oz.
91 C 035.....3.18

X XT HI-VOLTAGE CONNECTOR. Second anode connector. Silver-plated plug for low-loss contact. 1 1/2" rubber rap. 18" wire lead. Wt., 4 oz.
91 C 034.....29¢

Y PERMA-POWER B-101 HORIZONTAL BAR GENERATOR. Provides series of horizontal lines for checking picture linearity. Also for setting of deflection yoke and focus. Fits duodecal socket. 1 1/2x1 1/2". 5 oz.
91 C 077.....1.72

Z VIDAIRE KT-1 "KINE-TEST" CRT SUBSTITUTION TESTER. Quickly checks electromagnetic and electrostatic focus picture tubes. Plugs in—no need to remove chassis. Checks filament, bias and 1st anode voltages, and video signal at CRT socket. 4 1/2x1 1/2". 6 oz.
91 C 240.....4.14

AA J. W. MILLER 6295 ADJUSTABLE ION TRAP. Universal single-magnet ion trap. Replaces any single trap from 32 to 55 gauss. Wt., 6 oz.
91 C 103.....88¢

Selected TV Couplers, Arresters, and Twin Line



A **AT104 LIGHTNING ARRESTER.** For rotator installations. Handles 4-wire lead-ins. 8 precision-spaced teeth make positive contact. 1/4" ground lug. U.L. Listed. Wt., 15 oz. C 109.....88¢

B **AT105S UNIVERSAL LIGHTNING ARRESTER.** Mounts on mast. Saw-toothed screw terminals. For flat, tubular and open-wire line. 1/4" strap. U.L. Listed. Shpg. wt., 13 oz. C 110.....88¢

C **91 C 140. RA-2 TWO-SET TV COUPLER.** Operates 2 sets from one antenna with max. signal on all VHF/UHF channels. 300-ohm impedance. Attaches with single screw. 6 oz.....97¢

G-C TELCO LIGHTNING ARRESTER

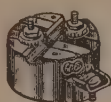
PE 8642. Low-cost unit for protection of TV sets. For use with round, oval, flat or open lines. Smooth contacts make firm connection. Single-screw mtg. U.L. Listed. 6 oz. C 082.....73¢



Moisture-Proof Glazed Porcelain

RADIO LIGHTNING ARRESTER

For series insertion in single-wire antenna lead-in of receivers. High barrier between hexnut terminals gives long leakage path. U.L. Listed. 6 oz. 91 C 091.....25¢



NEW! BLONDER TONGUE

"COLOR 4" FOUR-SET COUPLER

\$6.27

For operating 4 color and/or black-&-white sets from one antenna



A superb choice where 1 to 4 color sets are to be used with one antenna! Excellent impedance match and VSWR of less than 1.5:1 provide low insertion loss and sharp picture. 1/4x2 7/8x2 1/4". Wt., 6 oz. 91 C 431.....6.27

Isolation of 16 to 24 db with only 6.5 db insertion loss

POPULAR, TIME-TESTED TV AND FM COUPLERS

Feature excellent isolation, low insertion loss, no-strip terminals for easy installation. A-104 feeds 4 VHF sets from one antenna or mixes 4 antennas into one line. A-105 connects low/high-band VHF antennas to set with one line. A-107 combines VHF/UHF antennas or provides separate VHF/UHF outputs from one line. Impedance, 300 ohms. Size, 1/4x2 1/4x2 1/4". Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Type of Coupler	Isolation	Insertion Loss	EACH
91 C 078	A-102	Two-set	12 db	3 db	1.91
91 C 076	A-104	Four-set VHF	12-20 db	7.5 db	2.69
91 C 079	A-105	Hi-low VHF	21 db	0.5 db	2.69
91 C 432	A-107	VHF-UHF	...	1 db	2.89

BELDEN, AMPHENOL AND KNIGHT TWIN LINE



BELDEN 300-OHM TWIN LINE

TYPE 8225. Flat 300-ohm twin line, 7x28 stranded copper conductors. Polyethylene jacket has 58-mil web thickness. Spg. wt., 100 ft., 1 1/4 lbs.

C 440. 25' Coil.....71¢
C 441. 50' Coil.....1.03
C 442. 75' Coil.....1.32
C 443. 100' Coil.....1.62
W 384. Over 100'.....Per 100' 1.62

TYPE 8230. Weldohm 300-ohm, twin line, 70-mil web thickness. 7x28 stranded copper-coated steel wire. Copper coat provides high conductivity; steel core for high strength. Wt. per 100 ft., 2 lbs.

C 444. 25' Coil.....76¢
C 445. 50' Coil.....1.21
C 446. 75' Coil.....1.67
C 447. 100' Coil.....2.09
W 393. Over 100'.....Per 100' 2.09

TYPE 8275. 300-ohm UHF-VHF Cellular line. Excellent for color TV. Has cellular polyethylene core, inert gas-filled. Brown polyethylene jacket. 7x28 copper-coated steel cond. Wt. per 100 ft., 3 1/2 lbs.

C 448. 50' Coil.....2.35
C 449. 75' Coil.....3.38
C 450. 100' Coil.....4.19
W 398. Over 100'.....Per 100' 4.19

TYPE 8235. 300-ohm, oval twin line. Low loss; for UHF-VHF use. Copper-coated 26 steel wire conductors. 185-mil web thickness. 100-ft. minimum. Wt., per 100 ft., 4 1/2 lbs.

C 451. 100' Spool.....4.70
W 399. Over 100'.....Per 100' 4.70

TYPE 8285. Low-loss 300-ohm UHF-VHF. Recommended for color TV. 22-gauge (7x30) copperweld cond. Polyethylene insulation and webbing. Cellular polyethylene jacket. Outside diameter, 1/4x1 1/2". Wt., per 100 ft., 3 1/2 lbs.

C 452. 50' Coil.....2.79
C 453. 75' Coil.....4.12
C 454. 100' Coil.....5.29
W 586. Over 100'.....Per 100' 5.29

BELDEN 72-OHM TWIN LINE

TYPE 8222. 72 ohms. 7x28 stranded copper. Brown polyethylene jacket. .075x.128" diam. 100-ft. minimum. Wt., per 100 ft., 1 1/4 lbs.

C 455. 100' Spool.....1.62
W 379. Over 100'.....Per 100' 1.62

AMPHENOL 300-OHM TWIN LINE

TYPE 214-271. Tubular 300-ohm twin line. Air-core spacing for high efficiency—ideal for UHF or VHF installations. 7x28 copper conductors. 100-ft. minimum. Wt., per 100 ft., 3 lbs.

C 456. 100' Coil.....3.51
W 447. Over 100'.....Per 100' 3.51

TYPE 214-076. Heavy-duty 300-ohm tubular twin line. May also be used by Amateurs—rated at 1 kw RF. Low-loss air-core spacing. 7x26 copper. 100-ft. min. Wt., 100 ft., 3 1/2 lbs.

CX 457. 100' Coil.....6.36
W 409. Over 100'.....Per 100' 6.36

TYPE 214-103. Marine core 300-ohm twin lead for low loss in high precipitation and coastal areas—in rain, snow or salt spray. Also for fringe and industrial areas. 20-gauge (7x28) copper conductors, polyfoam cores, polyethylene jacket. O.D. 1/4x1 1/2". Wt., per 100 ft., 3 1/2 lbs.

C 458. 50' Coil.....4.20
C 459. 75' Coil.....5.80
C 460. 100' Coil.....7.35
W 594. Over 100'.....Per 100' 7.35

TYPE 214-318. Flat, 300-ohm twin line for indoor use only. 60-mil web clear polyethylene dielectric. Flexible for easy installation around baseboards, etc. Low loss. Wt. per 100 ft., 5 lbs.

C 461. 25' Coil.....87¢
C 462. 50' Coil.....1.38
C 463. 75' Coil.....1.89
C 464. 100' Coil.....2.37
W 484. Over 100'.....Per 100' 2.37

AMPHENOL 300-OHM TWIN LINE

TYPE 214-056. Flat 300-ohm polyethylene twin line for FM or TV use. 60-mil web thickness. 7x28 stranded conductors. Brown polyethylene dielectric. Wt. per 100 ft., 2 lbs.

C 465. 25' Coil.....83¢
C 466. 50' Coil.....1.31
C 467. 75' Coil.....1.77
C 468. 100' Coil.....2.22
W 436. Over 100'.....Per 100' 2.22

TYPE 214-100. Flat 300-ohm polyethylene twin line for FM or TV use. 60-mil web thickness. 7x28 stranded copper conductors. Brown polyethylene dielectric. Wt., per 100 ft., 2 1/2 lbs.

C 469. 50' Coil.....1.50
C 470. 75' Coil.....2.09
C 471. 100' Coil.....2.70
W 419. Over 100'.....Per 100' 2.70

TYPE 214-185. Flat, heavy-duty 300-ohm twin line. For VHF, TV and FM use. 185-mil web thickness. Polyethylene dielectric remains flexible at extremely low temperatures; resists air. 7x26 copper conductors. 100-ft. minimum. Wt., per 100 ft., 5 lbs.

C 472. 100' Coil.....5.40
W 426. Over 100'.....Per 100' 5.40

KNIGHT 300-OHM TWIN LINE

UHF-VHF OPEN LINE. 300-ohm. Designed to meet critical requirements of UHF installations. Loss 0.5 db per 100 ft. at 200 mc. Wt. per 100 ft., 2 1/2 lbs.

C 473. 100' Coil.....2.17
CX 474. 250' Coil.....4.89

VHF-TV TWIN LINE. High quality 300-ohm twin line. Provides excellent service at a moderate cost. 80-mil web thickness. Polyethylene jacket. No. 20 stranded conductors. Shpg. wt., 100 ft., 2 lbs.

C 475. 50' Coil.....59¢
C 476. 75' Coil.....84¢
C 477. 100' Coil.....1.09
W 435. Over 100'.....Per 100' 1.09

Accessories for Clearer TV—Better Radio Reception

WARD LOW-COST AUTO ANTENNA



MODEL TCF-3C. Combines smart appearance with deluxe performance. "Eight-Ball" mount for easy installation—fits top cowl of any car or truck. 3 sections extend to 56", telescope to 22". Adjusts to any angle. Chrome-plated brass tubing. With Motorola type plug. Preassembled. 1 lb. 92 C X 099.1.98



MALLORY

REPLACEMENT VIBRATORS

Proven in millions of auto radios over a period of many years. Offer long, reliable service. There's a vibrator listed below to fit almost every car radio manufactured. Easy to install—just plug in like a receiving tube. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Voltage	Size	EACH
91 C 280	4-4	6	1 1/2 x 2 3/8"	1.32
91 C 281	12-3	12	1 1/2 x 2 3/8"	1.38
91 C 282	12-4	12	1 1/2 x 2 3/8"	1.38
91 C 283	509P	6	1 1/2 x 2 1/8"	2.44
91 C 295	1601	6	1 1/2 x 2 3/8"	2.76
91 C 320	G1601	12	1 1/2 x 2 3/8"	2.76
91 C 298	G1602	12	1 1/2 x 2 3/8"	2.76
91 C 299	1610	6	1 1/2 x 2 3/8"	3.30
91 C 304	G1801S	12	1 1/2 x 2 3/8"	5.85

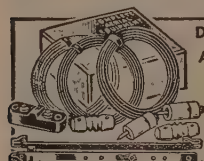
TV WALL-PLATES by CINCH-JONES



For terminating 300-ohm TV-FM lead-ins in std. outlet boxes. (Also attachable to wall.) *Have 8-wire outlets for antenna-rotator wiring. WPI, WPB have knock-out panel for adding rotator socket later. Plastic. With mtg. screws. Less plugs below. 7 oz.

Stock No.	Type	Fig.	Color	EACH
91 C 027	WPI	A	Ivory	.98
91 C 028	WPB	A	Brown	.98
91 C 029	*WPI-8	B	Ivory	1.58
91 C 030	*WPB-8	B	Brown	1.58

91 C 031. Twin-Line Plug. 2 oz.22¢
40 H 874. 8-Contact Rotor Plug. 3 oz.56¢



DELUXE BC/SW ANTENNA KIT Complete

\$198

"Pulls in" difficult-to-receive stations. Has 100' 7x26 bare copper wire; 40' rubber-covered lead-in; 25' heavy-gauge ground wire; 2 insulators; window lead-in; lightning arrester; 2 nail knobs; ground clamp; instructions. 2 1/2 lbs.

91 C 239.1.98

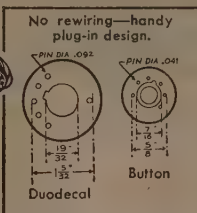
STANDARD KIT. 50' 7x26 wire; 25' lead-in; 2 antenna insulators; 1 screwtype standoff insulator; ground clamp. 1 1/2 lbs.

91 C 207.98¢

TUBE BRIGHTENERS FOR LIKE-NEW TV



Select proper type by these dimensions →



"BRITENERS" by PERMA-POWER

MODEL C-202 AUTOFORMER-TYPE Duo Decal Base. Adds life to aging picture tubes when dimness is due to low cathode-emission—returns brightness and contrast to picture. For all sets having parallel or series-wired filaments. Use on black-and-white picture tubes, 8" or larger. Boosts filament power 50%. Does not relieve cathode-filament shorts. Shpg. wt., 8 oz.

91 C 204.2.20

MODEL C-212 110" AUTOFORMER TYPE. Button Base. Picture tube brightener for 100" tubes with button base. Boosts filament power 50%. Has switch for instant adaptation to either parallel or series-wired filaments. Does not relieve cathode-filament shorts. Shpg. wt., 8 oz.

91 C 205.2.20

MODEL C-501 AUTOFORMER TYPE. For Color Tubes. Puts "new life" in your color TV set. Provides increased filament voltage to boost emission of any 21" or 22" 3-gun tube to restore color fidelity and improve picture contrast. Shpg. wt., 1 lb.

91 C 227.5.73

"KURE-ALL" by ANCHOR

MODEL UK-200. Duodecal Base. Extra-versatile picture tube restorer. Corrects cathode-heater and cathode-control grid shorts, open cathodes and control grids, plus low emission, or any combination of these. Switch permits isolation of parallel or series filaments, with either normal or boosted voltage. May be used for either electrostatic or electromagnetic focus tubes. With instructions for easy connection. 1 lb.

91 C 104.3.90

REMBRANDT TV CLARIFIER

Attach It Yourself in 60 Seconds

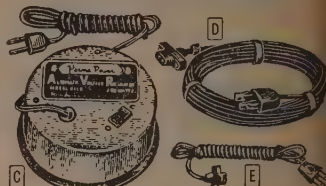
\$595



A handy device that improves reception by amplifying the pickup power of your antenna. Helps filter out ghosts and interference, clears up snowy pictures. 12-position switch for selecting clearest picture. For 110-120 v., AC or DC. With 5' twin-line. Shpg. wt., 2 1/4 lbs.

91 C 209.5.95

TV POWER ACCESSORIES



C PERMA-POWER VOLTAGE REGULATOR. Maintains normal operating voltage for TV sets, hi-fi systems, etc. Useful in areas or buildings where line voltage is consistently low. Improves TV reception by eliminating picture shrinkage, flutter, and loss of brightness due to inadequate voltage. Automatically boosts voltage 10 volts when line voltage goes below 110. 300-watts capacity. Turns on and off with appliance. 4 3/4 x 4 3/4 x 2 1/4". Wt., 2 1/4 lbs.

91 C 224.5.85

D TV POWER CORD AND CONNECTOR. Identical to original equipment on most sets. 18-gauge, 2-conductor cord. 9 ft. long. Molded connector fits standard TV receptacle. U.L. Listed. Shpg. wt., 8 oz.

91 C 045.36¢

E 91 C 046. 6-Ft. Cord and Connector. As above, but 6-ft. long. 6 oz.30¢

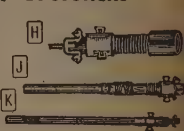
CONSOLIDATED ANTENNA KITS—SUPEREX "LOOPSTICKS"



MODEL 615



MODEL 635



F CONSOLIDATED MODEL 615 ANTENNA KIT. For those really "hard-to-get" stations. Contains all parts and wire for any one of the following antennas; balanced doublet, double doublet, or inverted-L. Includes 100' of bare antenna wire, 50' insulated transmission line, 4 glass insulators, 2 screw eyes, lightning arrester, lead-in strip, and ground clamp. Complete with instructions. Shpg. wt., 3 1/4 lbs.

91 C 084.4.25

G CONSOLIDATED MODEL 635 DOUBLET ANTENNA KIT. For "long-distance" reception. Contains 2—30' coils of 7x24 copper wire, 50' lead-in wire, 10' ground wire, 3—3" glass insulators, ground clamp, lead-in tube, 2 knob insulators. 3 1/4 lbs.

91 C 085.3.72

H VARI-LOOPSTICK. For AM broadcast sets. "Q" of 250. Adjustable ferrite core. Snap-in mounting. 3/8 x 2 1/4". Wt., 4 oz.

91 C 060.59¢

J "ENERGIZED" FERRI-LOOPSTICK. This 5" loopstick has a "Q" of up to 350. Adjustable coil with self-locking collar. Single-hole mounting. 3/8 x 3". 6 oz.

91 C 062.88¢

K 7" LOOPSTICK. Same as "energized" loopstick above, but has 7" length for greater sensitivity. "Q" to 425. 6 oz.

91 C 063.1.32

COPPERWELD ANTENNA WIRE—12 TO 18-GAUGE



High-quality. Copperweld antenna wire. Features copper outer conductor bonded to a steel core. Also may be used for guying antenna towers and masts. In a variety of sizes, from 12-gauge to 18-gauge.

Stock No.	Gauge	Feet	Lbs.	PER ROLL
91 C 357	12	100	2	2.69
91 C 358	12	250	5	6.30
91 C 359	14	100	1 1/2	2.37
91 C 360	14	250	3	5.12
91 C 361	18	250	2	1.47
91 C 362	18	500	3	2.94
91 C 363	18	3000	18	14.48

YOU GET TOP BUYING POWER with your **ALLIED** CREDIT FUND

Buy more of the things you want now for the same low monthly payment!

HAVE CONTINUOUS BUYING POWER

with your

ALLIED
CREDIT FUND

Have Big Buying Power Like
This: For Only \$5 Monthly
You Can Buy Up to \$100

CREDIT FUND PAYMENT TABLE

Monthly Payment	Unpaid Balance (Total amount less any payment)
Only	Buys Up To
\$5	\$100
\$6	\$120
\$7	\$140
\$8	\$160
\$9	\$180
\$10	\$200
\$11	\$220
\$12	\$240
\$13	\$260
\$14	\$280
\$15	\$310
\$16	\$340
\$17	\$370
\$18	\$400
\$19	\$440
\$20	\$480
\$21	\$500
\$22	\$525
\$23	\$550
\$24	\$575
\$25	\$600
\$26	\$625

Over \$625—Monthly payments will
be in proportion to amounts on chart.

Small Service Charge. Only a small
service charge of 1½%, minimum
50c, is added to your monthly bal-
ance. There are no other charges.
Your monthly statement shows ex-
actly what you pay, what you owe
and how much unused credit you
have.

Get These 8 Outstanding Advantages . . .

1. Your Allied CREDIT FUND PLAN increases your buying power with convenient low monthly payments
2. Not a penny down required
3. Take up to 24 months to pay
4. A definite amount is set aside in a CREDIT FUND for your use
5. Make "add-on" purchases at any time—send no money
6. You always know where your account stands—you get a full statement each month
7. Your unused CREDIT FUND automatically increases every time you make a payment
8. No need to figure postage or shipping charges—we do that for you and add them to your account

Plus Benefits: A single low monthly payment brings you anything Allied
sells. You save money, because all you pay is a small monthly service
charge, which is automatically reduced every time you make a payment.
No service charge at all if paid in 30 days.

Here's How the Allied CREDIT FUND Works . . .

When you first open an Allied CREDIT FUND account, we set up a Credit Fund in your
name. It allows you a definite amount which we set aside in a Fund for your use. Buy
anything you want without a penny down—covers "add-ons," too.

You always know exactly how much more credit is available to you. Under the CREDIT
FUND Plan, you can actually enjoy top buying power for the lowest monthly payment.
Example: For a monthly payment of only \$26 you can buy in the amount of \$625.00.

To Open Your Account . . .

To enjoy the advantages of an Allied CREDIT FUND, fill in the application on the back
of our order blank, and send it in with your order.

No Down Payment Required . . .

No down payment is required on any purchase you make on your Allied Credit Fund
Plan. You can use all or any portion of the amount in your Fund. Your monthly payments
depend on the amount you use (see Table at left).

Each time you buy, you draw against your Fund, but each payment you make goes
toward building up *more and more* credit. This means you can "add-on" new orders
at any time.

Only Your Signature on "Add-on" Orders . . .

You can "add-on" orders at any time for the unused amount in your fund with no money
down. Just sign your order in the space provided. You may determine your monthly
payment in the following way:

1. Combine amount of your "add-on" order with your present unpaid balance.
2. See Table at left to find proper monthly payment for new unpaid balance.
3. If the monthly payment is the same or less than the amount you are currently paying, no change in your monthly payment will be required.
4. If monthly payment for your "add-on" order, plus your present unpaid balance is more than you currently pay, we will show the new monthly payment on your next statement.

Simplest, Easiest Plan . . .

Because you get a detailed personal statement each month, you don't have to bother
with bookkeeping. You can check accuracy in seconds. Because all shipping charges
are prepaid and included in your account, there's nothing to figure. Your Credit Fund
Plan is the last word in low-cost convenience.

*Enjoy more of the things you need and want in elec-
tronics . . . today—open an Allied Credit Fund Account.*

CREDIT FUND APPLICATIONS CANNOT BE ACCEPTED FROM PERSONS UNDER 21 YEARS OF AGE

COMPLETE CATALOG INDEX BEGINS ON PAGE 437

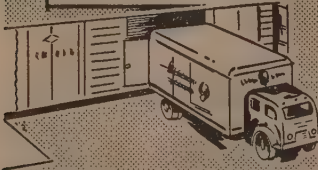
ALLIED 433

HELPFUL SHIPPING AND

RAILWAY EXPRESS



TRUCK OR RAIL FREIGHT



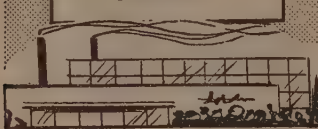
AIR FREIGHT OR AIR EXPRESS



OUTSIDE OF CONTINENTAL U.S.



FACTORY SHIPMENT



SHIPMENTS ARE INSURED



TRUCK AND RAIL FREIGHT. For heavier shipments, freight is most economical. Approximate rates below, vary in different areas. Shipping charges are collected on delivery.

HOW TO ESTIMATE TRUCK FREIGHT CHARGES

Minimum Charge 100 Lbs.	Maximum Distance in Miles							
	50	150	300	450	750	1000	1500	2250
	4.41	4.41	4.68	4.91	5.94	6.46	8.38	9.83
150 Lbs.....	4.41	4.41	4.68	5.12	6.24	6.88	12.57	14.76
200 lbs.....	4.41	4.84	6.18	6.82	8.32	9.18	16.76	19.61
For each Extra Lb.	2¢	3¢	3¢	4¢	4¢	5¢	8¢	10¢

EXPRESS. Fastest way to ship unmailable equipment. Remit full amount for merchandise, but do not send money to cover Express charges, which are collected on delivery. "U" or "Z" in Stock No. designates an unmailable item.

HOW TO ESTIMATE EXPRESS CHARGES

(Rates are about 10% higher to eastern states.)

Weight in Pounds	Mileage							
	50	150	300	500	750	1000	1500	2250
5	3.00	3.05	3.15	3.25	3.35	3.40	3.45	3.50
10	3.15	3.25	3.40	3.65	3.85	3.95	4.00	4.45
15	3.30	3.40	3.70	4.00	4.35	4.50	4.55	5.40
20	3.40	3.60	3.95	4.40	4.85	5.05	5.10	6.35
25	3.55	3.80	4.25	4.80	5.35	5.60	5.70	7.25
35	3.85	4.15	4.80	5.60	6.30	6.65	6.90	9.15
45	4.10	4.50	5.35	6.35	7.30	7.75	8.15	11.05
55	4.35	4.90	5.90	7.15	8.25	8.85	9.35	12.90
70	4.75	5.45	6.70	8.30	9.75	10.45	11.20	15.70
80	5.05	5.80	7.25	9.05	10.70	11.55	12.40	17.60
For each 100 Lbs.	5.55	6.50	8.30	10.55	12.60	13.60	14.70	21.15

SHIPPING BY AIR FREIGHT AND AIR EXPRESS

If you have a "rush" order that must arrive sooner than you can get it by surface transportation, we will ship via air freight or Air Express, upon your request. Please contact your local freight or Express agent for complete information about shipping costs. Remit enough with your order to cover value of merchandise, but send nothing for transportation charges, which are collected upon delivery.

SHIPMENTS OUTSIDE OF CONTINENTAL UNITED STATES

We ship orders to Canada, Alaska, Hawaii, APO's and FPO's and U.S. possessions. See detailed information, below. Please allow 30 to 60 days for delivery. We also ship to foreign countries—please write for information.

CANADA. Our prices are in terms of U.S. currency. We deduct 10% from face value of remittances in Canadian currency. Please add 10% to such remittances. Parcel Post limits: 25 lbs. and 72 inches (length plus girth). 8c for first 2 lbs.; 30c for each additional lb. Insurance fees, below. No C.O.D. or Air Parcel Post. We can ship Express or freight.

ALASKA AND HAWAII. For Parcel Post, use 8th zone rates. Insurance fees, below. Air freight, Express, truck or ship, require Marine and Risk insurance. Air freight or Air Express—10c per \$100.00 valuation; truck or ship, 50c per \$100.00 valuation.

APO'S AND FPO'S. Air and surface shipments usually limited to 70 lbs. and 100 inches (length plus girth). Exceptions exist, so please determine restrictions to your APO or FPO before ordering. Remit charges as follows: New York APO's and FPO's, use zone 5 rates; San Francisco APO's and FPO's, use zone 8 rates. All air shipments use zone 8 rates. No C.O.D. shipments.

U.S. POSSESSIONS. Parcel Post shipments to Canal Zone, Canton Island, Guam, Marianna and Marshall Islands, Puerto Rico (*see note below), Samoa, Virgin Islands and Wake Islands are limited to 70 lbs. and 100 inches (length plus girth). Remit for charges based upon zone 8 rates. No C.O.D. shipments. *Note: Commonwealth of Puerto Rico imposes excise taxes on electrical appliances (hi-fi systems, components, etc.) of at least 15% of invoice price, collected on delivery.

SHIPMENTS DIRECT FROM FACTORY

The letter "D" preceding any of our Stock Nos. indicates merchandise that is shipped directly from the factory collect by Express or truck only. Freight and Express charges are based upon the distance from factory to point of destination.

PARCEL POST SHIPMENTS ARE INSURED

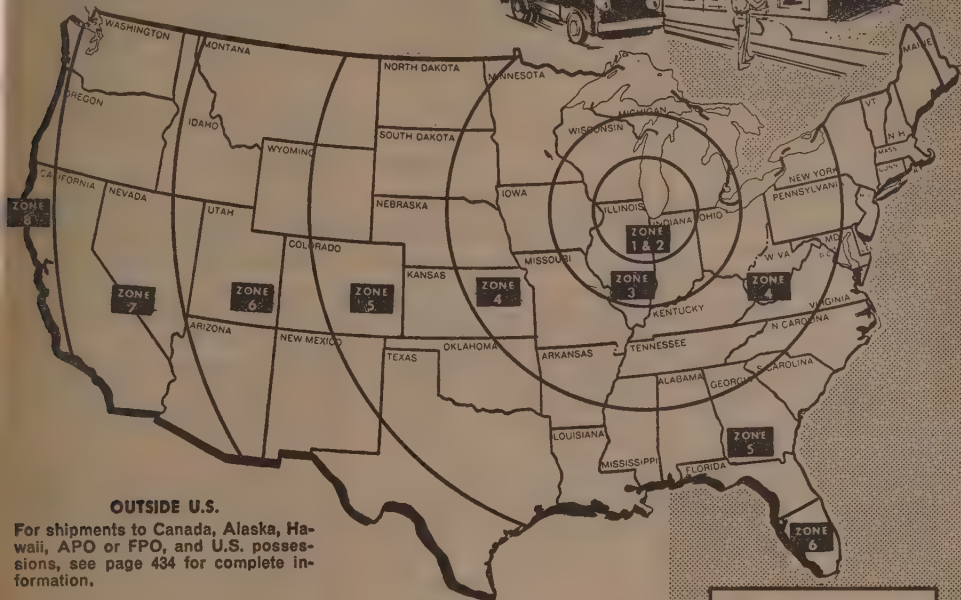
To provide you with complete protection, we insure every Parcel Post shipment with a dependable private insurance company. In case of loss or damage in shipment, adjustment is made easily and quickly. When prepar-

ing your order, please allow for insurance fees at the rates shown below.
Up to \$10.00 10c
\$10.01 to \$50.00 20c
\$50.01 to \$100.00 30c
\$100.01 to \$200.00 40c

DELIVERY INFORMATION

HOW TO ESTIMATE PARCEL POST CHARGES

Locate your zone on the Parcel Post zone map below, and note the numbered area in which it falls. Then refer to the Parcel Post rate table below, and read across from the total weight of your shipment to the postage listed under your zone. Please remit the amount shown for postage, plus insurance fee (see rates on facing page).



OUTSIDE U.S.

For shipments to Canada, Alaska, Hawaii, APO or FPO, and U.S. possessions, see page 434 for complete information.

Up to 16 ounces, all zones allow 3c for first 2 ounces, 1½c for each additional ounce. The post office charges a fraction of a pound as a full pound. For example, if the total weight is 1½ pounds and 1 ounce to Zone 4, postage would be for 6 pounds (70¢).

WEIGHT Lb. or Not Exceeding	Chicago	1st & 2nd Zone up to 150 mi.	3rd Zone up to 300 mi.	4th Zone up to 600 mi.	5th Zone 600 to 1000 mi.	6th Zone 1000 to 1400 mi.	7th Zone 1400 to 1800 mi.	8th Zone Over 1800 mi.
2	\$0.24	\$0.33	\$0.35	\$0.39	\$0.45	\$0.51	\$0.58	\$0.64
3	.26	.38	.41	.47	.55	.64	.74	.83
4	.28	.43	.47	.55	.65	.77	.90	1.02
5	.30	.48	.53	.63	.75	.90	1.06	1.21
6	.32	.53	.59	.70	.85	1.03	1.22	1.40
7	.34	.58	.65	.77	.95	1.16	1.38	1.59
8	.36	.63	.71	.84	1.05	1.29	1.54	1.78
9	.38	.68	.77	.91	1.12	1.42	1.70	1.97
10	.40	.73	.83	.98	1.25	1.55	1.86	2.16
11	.42	.77	.89	1.05	1.35	1.67	2.02	2.34
12	.44	.81	.95	1.12	1.45	1.79	2.18	2.52
13	.46	.85	1.01	1.19	1.55	1.91	2.34	2.70
14	.48	.89	1.07	1.26	1.65	2.03	2.50	2.88
15	.50	.93	1.13	1.33	1.75	2.15	2.66	3.06
16	.52	.97	1.18	1.40	1.85	2.27	2.81	3.24
17	.54	1.01	1.23	1.47	1.95	2.39	2.96	3.42
18	.56	1.05	1.28	1.54	2.05	2.51	3.11	3.60
19	.58	1.09	1.33	1.61	2.15	2.63	3.26	3.78
20	.60	1.13	1.38	1.68	2.25	2.75	3.41	3.96
21	.62	1.17	1.43	1.75	2.34	2.87	3.56	4.14
For Each Extra Lb.	Add 12¢	Add 5¢	Add 7¢	Add 9¢	Add 12¢	Add 14¢	Add 15¢	Add 18¢

Over 20 pounds shipped express or truck. See below.

AIR PARCEL POST SHIPMENTS

We will ship your order via Air Parcel Post upon your request. Rates are given in the table below. Size and weight limits are 70 lbs. and 100 inches (length plus girth).

7¢ per ounce, up to 8 ounces

ZONES	1, 2 & 3	4	5	6	7	8	U. S. Territories, Possessions and APO & FPO Addresses, 80¢ per lb.
1st Lb.	68¢	73¢	78¢	83¢	83¢	88¢	
For Each Extra Lb	Add 48¢	Add 50¢	Add 56¢	Add 64¢	Add 72¢	Add 80¢	

PARCEL POST

**VIA AIR
PARCEL POST**



"U" AND "Z" ITEMS

The letter "U" or "Z" in our Stock Nos. (as in 35 DU 717, or 91CZ 331) identifies items that are fragile or exceed parcel post size or weight limits. We ship them by Express or truck. ("U" items shipped by delivery truck in Chicago, and zones 1, 2, and 3, at Parcel Post rates.)

ABOUT C.O.D. ORDERS

To save you money, we strongly recommend that you send a remittance with your order, or use Allied's Credit Fund Plan. The Post Office charges a collection and a money order fee. Minimum C.O.D. order that we process, is \$5.00, with a deposit of at least 20% required.

PARCEL POST C.O.D. FEES:

\$0.01 to \$5.00	.40¢	\$50.01 to \$100.00	.90¢
5.01 to 10.00	.50¢	100.01 to 150.00	1.00¢
10.01 to 25.00	.70¢	150.01 to 200.00	1.00¢
25.01 to 50.00	.80¢	.....	.....

MONEY ORDER FEES:

From \$0.01 to \$10.00	20¢
From 10.01 to 50.00	30¢
From 50.01 to 100.00	35¢

IMPORTANT ORDERING INFORMATION

TERMS

CASH TERMS

When you buy from us for cash (money order or check), please send sufficient funds to cover the full amount of the merchandise ordered, plus postage and insurance fees. (See preceding two pages for full information on how to estimate postage and determine insurance rates.) No money should be sent to cover Express or truck charges, which are collected on delivery. If your remittance comes to more than the actual cost, every penny will be promptly refunded.

CREDIT FUND TERMS

Increase your buying power with an Allied Credit Fund Account. No down payment is required, and you can take up to 24 months to pay. Your single, low monthly payment brings you anything that Allied sells. And you can use all, or any portion of the amount in your Fund at any time. Add-on orders require only your signature. Your application form is on the back of our order blank. See page 433 for complete information about Allied's Credit Fund Plan.

IF IT IS NECESSARY TO WRITE TO US . . .

We return your order papers with a packing slip that summarizes prices and transportation charges. If you write to us about your order, please include all order papers and any correspondence that we have returned to you. If you don't have the order papers, please provide us with the Stock Nos. and description of the merchandise, as well as the name and address that appeared on the original order.

ALLIED'S GUARANTEE TO YOU

Every item of merchandise that you buy from us must satisfy you in every way, or we want you to return it to us at once, for exchange, repair or refund. You can order any merchandise listed in our catalogs and sale books at any time, with the knowledge that Allied always guarantees your satisfaction or your money back.

ABOUT OUR PRICES

You Pay NET Catalog Prices. Catalog prices are net, f.o.b. Chicago, except where otherwise indicated. Our NET catalog prices are the prices you pay on shipments within the United States, and to Canada and Puerto Rico. For shipments to other countries, see "Export Prices" below.

Your Order Is Shipped at Current Prices. Prices in this catalog replace prices in all previous Allied catalogs, and are subject to change without notice. Orders will be filled at prices in effect at time of shipment.

You Get Immediate Benefit of Any Price Reductions. If prices are reduced during the life of this catalog, we will give you the advantage of the new, lower prices and refund the difference. We reserve the right to add any federal, state or local taxes now in effect, or which may be levied at any time after this catalog is printed.

Export Prices. All prices and terms in this catalog apply only to residents of the United States, Canada and Puerto Rico. For prices and terms to other countries, please write to our Export Department, Allied Radio Corporation, 100 N. Western Avenue, Chicago 80, Illinois.

TO HELP YOU WRITE YOUR ORDER

Please Use Our Order Blank. To speed your order, please fill in all information requested.

Indicate Method of Shipment. We ship by Parcel Post, Express, freight, and local package delivery truck. See 2 preceding pages for rate charts.

Shipping Weights. Weights in catalog and rate charts (preceding 2 pages) give shipping costs.

Insurance. To protect you, we insure all Parcel Post shipments with a dependable private insurance company. See page 434 for rates.

Cash Orders. On cash orders, please remit full amount for items ordered, plus postage and insurance. Don't worry about sending too much. Every extra cent will be refunded.

Credit Fund Orders. On Credit Fund orders, shipping charges are prepaid and added to your account.

How to Send Money. Please send your remittance by Post Office or Express money order, bank draft, or check. Please do not send stamps. If you must send cash, please be sure to register your letter.

TO RETURN MERCHANDISE FOR ANY REASON . . .

Parcel Post. Place instructions, order papers and correspondence in an envelope inside package. Mark "First Class Mail Enclosed" and add extra 5c postage for letter. Be sure to insure the package.

Express. Place all papers in a stamped and sealed envelope inside the package. Date envelope and draw several lines across the stamp with ink. Your name and address should be on envelope, as well as on package.

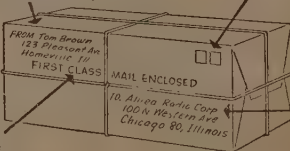
Place original order papers and a letter of explanation in an envelope

Put envelope inside your package

Print name and address as on original order

Postage for package plus postage for letter

Print this on package



Address package to Allied

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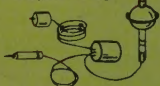
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Sensitive Noise-
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